

CELL / MODEL NAME	DESCRIPTION	DATE
BD1001	D bar bending diagram for curb with Type T railing	
BRGINT	Bearing detail for integral abutment with steel beams	
CLAMP	Shear key clamping details at stage construction joint	
CONN	Stud shear connector details	
D4X12	4 in x 12 in drain details	
DD1004	Curb section for deck beams with Type T railing	
DD1005	Drain detail for PPC deck beams	
DD7001	Section at abutment with Neoprene Expansion Joint	
DIAPH	Diaphragm details for girders < 48"	
DKBM01	Section thru fixed abutment for 11" or 17" PPC deck beams with bit surface and waterproofing	
DKBM02	Section thru fixed abutment for 21" thru 33" PPC deck beams with bit surface and waterproofing	
DKBM03	Section thru fixed abutment for 11" or 17" PPC deck beams with concrete wearing surface	
DKBM04	Section thru fixed abutment for 21" thru 33" PPC deck beams with concrete wearing surface	
DKBM05	Section thru expansion abutment for 17" PPC deck beams with bit surface and waterproofing	
DKBM06	Section thru expansion abutment for 21" thru 33" PPC deck beams with bit surface and waterproofing	
DKBM07	Section thru expansion abutment for 17" PPC deck beams with concrete wearing surface	
DKBM08	Section thru expansion abutment for 21" thru 33" PPC deck beams with concrete wearing surface	
DKBM09	Section thru fixed pier with bituminous surface and waterproofing	
DKBM10	Section thru expansion pier with bituminous surface and waterproofing	
DKBM11	Section thru fixed pier with concrete wearing surface	
DKBM12	Section thru expansion pier with concrete wearing surface	
DS-11	Drainage Scupper, DS-11	
DS11L	Drainage Scupper, DS-11 details, left drain	
DS11R	Drainage Scupper, DS-11 details, right drain	
DS-12	Drainage Scupper, DS-12	
DS12L	Drainage Scupper, DS-12 details, left drain	
DS12R	Drainage Scupper, DS-12 details, right drain	
DS33	Drainage Scupper, DS-33	
DS33R	Drainage Scupper, DS-33 details, right drain	
EXPJT	2 1/2" PJS no wearing surface	
EXPJT1	4" PJS no wearing surface	
EXPJT2	2 1/2" PJS with wearing surface	
EXPJT3	4" PJS with wearing surface	
EXPJT4	1 3/4" PJS no wearing surface	
GN1	General note 1	
GN2	General Note 2	

CELL / MODEL NAME	DESCRIPTION	DATE
GN3	General note 3	
GN4	General Note 4	
GN5	General Note 5	
GN6	General Note 6	
GN8	General Note 8	
GN10	General Note 10	
GN14	General Note 14	
GN15	General Note 15	
GN16	General Note 16	
GN17	General Note 17	
GN18	General Note 18	
GN19	General Note 19	
GN20	General Note 20	
GN21	General Note 21	
GN23	General Note 23	
GN24	General Note 24	
GN25	General Note 25	
GN26	General Note 26	
GN28	General Note 28	
GN30	General Note 30	
GN31	General Note 31	
GN32	General Note 32	
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GN34	General Note 34	
GN36	General Note 36	
GN37	General Note 37	
GN38	General Note 38	
GN39	General Note 39	
GN40	General Note 40	
GN41	General Note 41	
GN42	General Note 42	
GN43	General Note 43	
GN44	General Note 44	
GN45	General Note 45	
GN46	General Note 46	
GP0001	Phoebe nesting site	

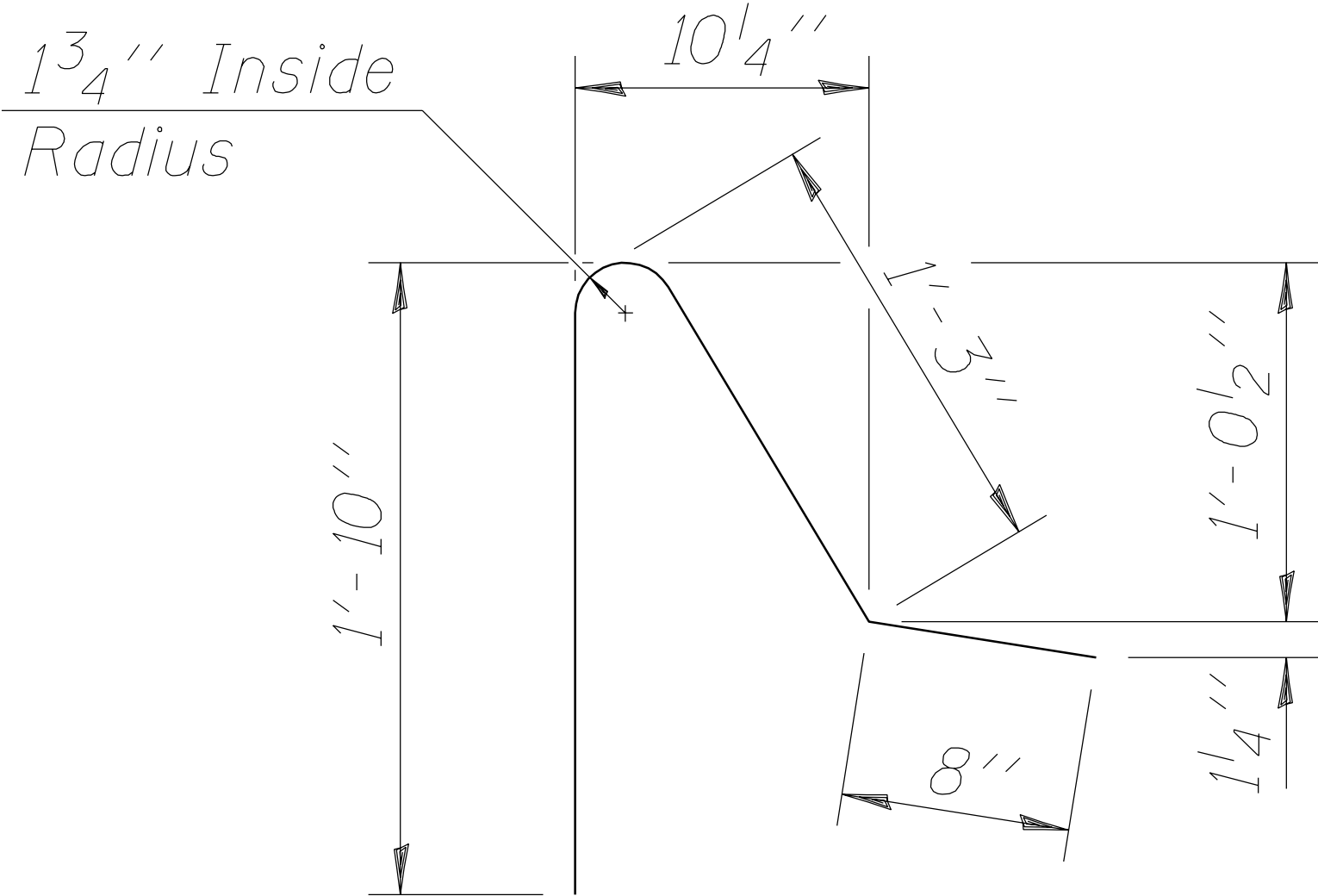
CELL / MODEL NAME	DESCRIPTION	DATE
GP0002	Design specifications, stresses and loading	
GP0003	Section thru integral abutment for PPC beams	
GP0004	Section thru integral abutment for steel beams	
GP0005	Total Bill of Material, 15 line	
GP0006	Total Bill of Material, 20 line	
GP0007	Total Bill of Material, 25 line	
GP0008	Total Bill of Material, 30 line	
GP0009	Name Plate	
GTBRAC	Geotextile Wall Brace	
GTWALL	Geotextile wall procedure	
NOTES	Note placement text nodes	
PARJNT	Parapet joint details	
PARJNT1	Parapet joint at sidewalk	
PI1	Removal and Disposal of Unsuitable Material	
PI2	Porous Granular Embankment	
PI3	Stone Riprap, Class A	
PI4	Stone Dumped Riprap, Class A	
PI5	Filter Fabric for use with Riprap	
PI6	Removal of Existing Structures	
PI7	Removal of Existing Superstructures	
PI8	Concrete Removal	
PI9	Bridge Handrail Removal	
PI10	Handrail Concrete Removal	
PI11	Removal of Existing Concrete Deck	
PI12	Structure Excavation	
PI13	Cofferdam Excavation	
PI14	Rock Excavation for Structures	
PI15	Cofferdams	
PI16	Driving Steel Piles	
PI17	Floor Drains	
PI18	Preformed Joint Seal "	
PI19	Neoprene Expansion Joint "	
PI20	Concrete Structures	
PI21	Concrete Superstructure	
PI22	Bridge Deck Grooving	
PI23	Seal Coat Concrete	

CELL / MODEL NAME	DESCRIPTION	DATE
PI24	Protective Coat	
PI25	Elastomeric Bearing Assembly, Type	
PI26	Precast Prestressed Concrete Deck Beams	
PI27	Furnishing and Erecting Precast Prestressed Concrete Bulb T-Beams	
PI28	Furnishing and Erecting Precast Prestressed Concrete I Beams, "	
PI29	Precast Concrete Panel	
PI30	Precast Concrete Plank	
PI31	Precast Prestressed Concrete Plank	
PI32	Furnishing and Erecting Structural Steel	
PI33	Furnishing and Erecting Structural Steel	
PI34	Stud Shear Connectors	
PI35	Structural Steel Repair	
PI36	Cleaning and Painting Steel Bridge No.	
PI37	Reinforcement Bars	
PI38	Reinforcement Bars, Epoxy Coated	
PI39	Aluminum Railing, Type L	
PI40	Steel Railing, Type	
PI41	Steel Bridge Rail	
PI42	Slopedwall Inch	
PI43	Furnishing Metal Pile Shells "	
PI44	Furnishing Steel Piles HP x	
PI45	Furnishing Concrete Piles	
PI46	Driving and Filling Shells	
PI47	Driving Concrete Piles	
PI48	Test Pile Metal Shells	
PI49	Test Pile Steel HP x	
PI50	Test Pile Concrete	
PI51	Metal Shoes	
PI52	Steel Sheet Piling	
PI53	Temporary Sheet Piling	
PI54	Temporary Bridge Rail	
PI55	Name Plates	
PI56	Expansion Bolts 3/4 Inch	
PI57	Concrete Box Culverts	
PI58	Waterproofing Membrane System	
PI59	Sand Backfill	

CELL / MODEL NAME	DESCRIPTION	DATE
PI60	Bridge Seat Sealer	
PI61	Epoxy Crack Sealing	
PI62	Temporary Concrete Barrier	
PI63	Floating Bearing, Guided Expansion	
PI64	Floating Bearing, Non-Guided Expansion	
PI65	Floating Bearing, Fixed	
PI66	Drainage Scupper, DS-12	
PI67	Drainage Scuppers, DS-33	
PI68	Bridge Joint System (Expansion)	
PI69	Bridge Joint System (Fixed)	
PI70	Drainage Scuppers, DS-11	
PI71	Bar Splicers	
PI72	Drilled Shaft in Soil " Dia.	
PI73	Drilled Shaft in Rock " Dia.	
PI74	Drainage System	
PI75	Jacking and Cribbing	
PI76	Temporary Support System	
PI77	Temporary Wall Bracing System	
PILENC	Pile Encasement Details	
PJS	PJS details	
RRAP	Riprap anchor detail	
SMR01E	Side mount rail details for PPC deck beams with concrete wearing surface	
SMR02E	Side mount rail details for PPC deck beams with concrete wearing surface	
SMR03E	Side mount rail details for PPC deck beams with concrete wearing surface	
SMR04E	Side mount rail details for PPC deck beams with concrete wearing surface	
SWSEC	Section thru sidewalk	
TABLE1	LFD Moment and reaction tables with notes for steel beams	
TABLE2	LFD Moment and reaction tables with notes for PPC beams	
TABLE3	LRFD Moment and reaction tables with notes for steel beams	
TABLE4	LRFD Moment and reaction tables with notes for PPC beams	
TMPBRR	Temporary Concrete Barrier	

Cell Name: BDI001

Descrip: D bar bending diagram for curb with Type T railing



D BAR

Cell Name: BRGINT
 Descrip: Bearing detail for integral abutment with steel beams

Technical drawing of a bridge deck detail. The drawing shows a cross-section of a bridge deck with a 24" R (radius) and a 2" gap. A shim plate is shown if required. The drawing includes dimensions and labels for components like the bridge deck, shim plate, and leveling mat.

Labels and dimensions:

- 24" R
- 2"
- Shim plate if required
- 2" x 9" x -
- Bridge deck
- Leveling mat

r bolts

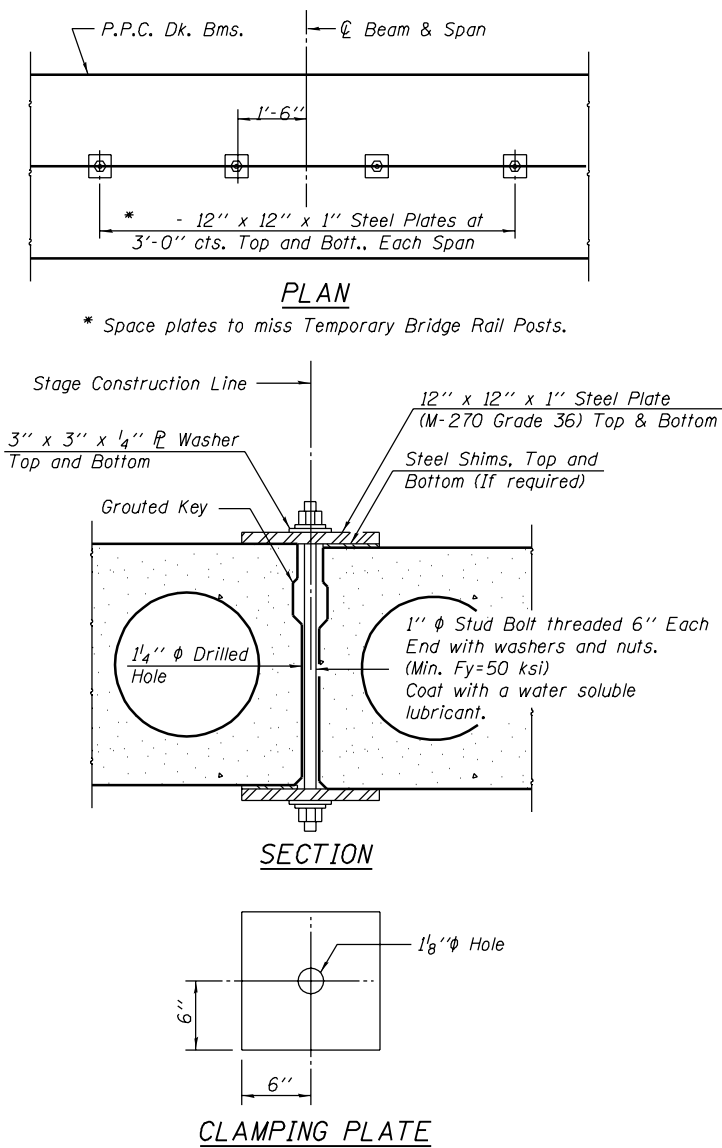
SECTION A - A

FIXED BEARING

See sheet for Anchor Bolt installation.

Cell Name: CLAMP

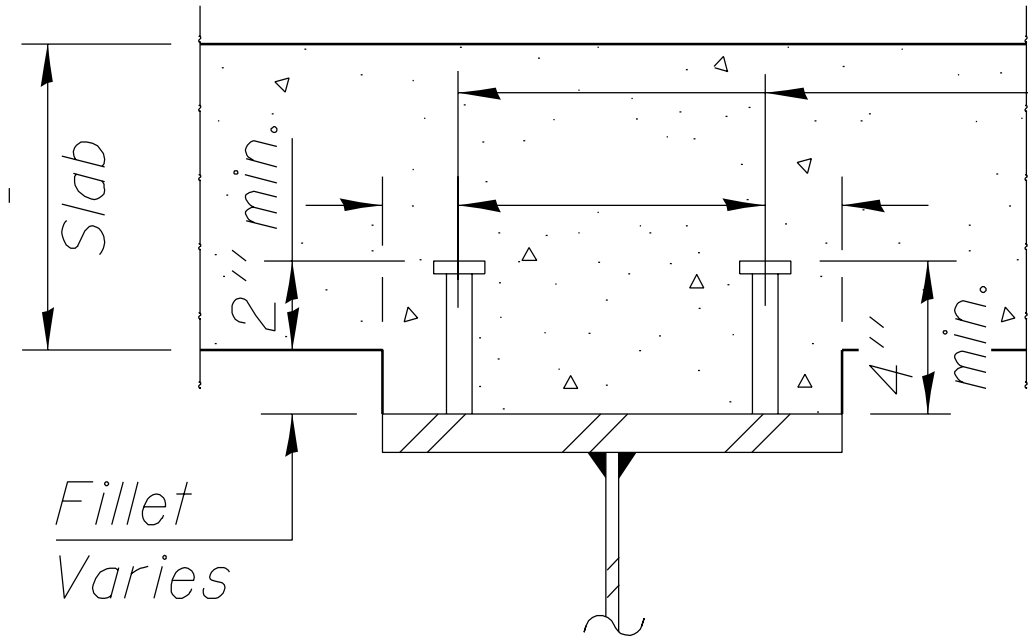
Descrip: Shear key clamping details at stage construction joint



SHEAR KEY CLAMPING DETAILS AT STAGE CONST. JT.

See Special Provisions for Stage Construction of
Precast Prestressed Concrete Deck Beams.
Cost included with "Precast Prestressed Concrete
Deck Beams".
See Stage Construction Details for traffic lanes.

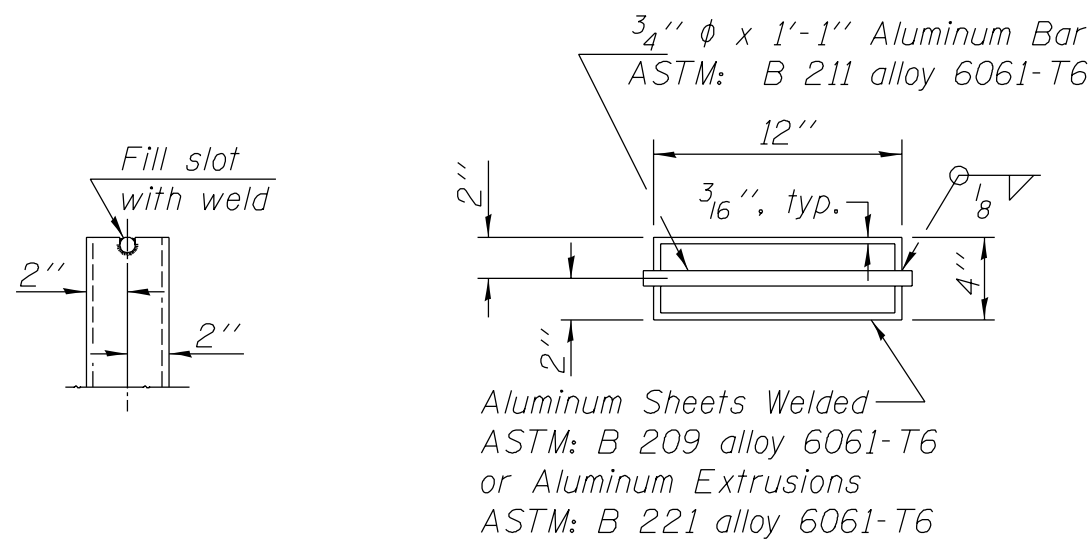
Cell Name: CONN
 Descrip: Stud shear connector details



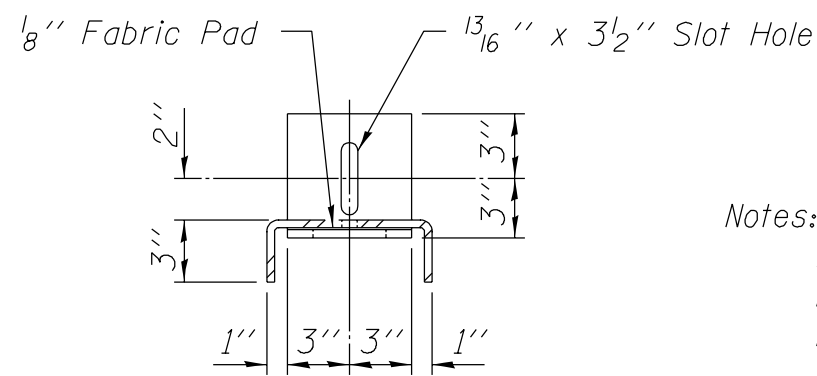
$\frac{3}{4}$ " ϕ Granular or solid flux
 filled headed studs, automatically
 end welded to flange.
 (Req'd.)

SECTION A - A

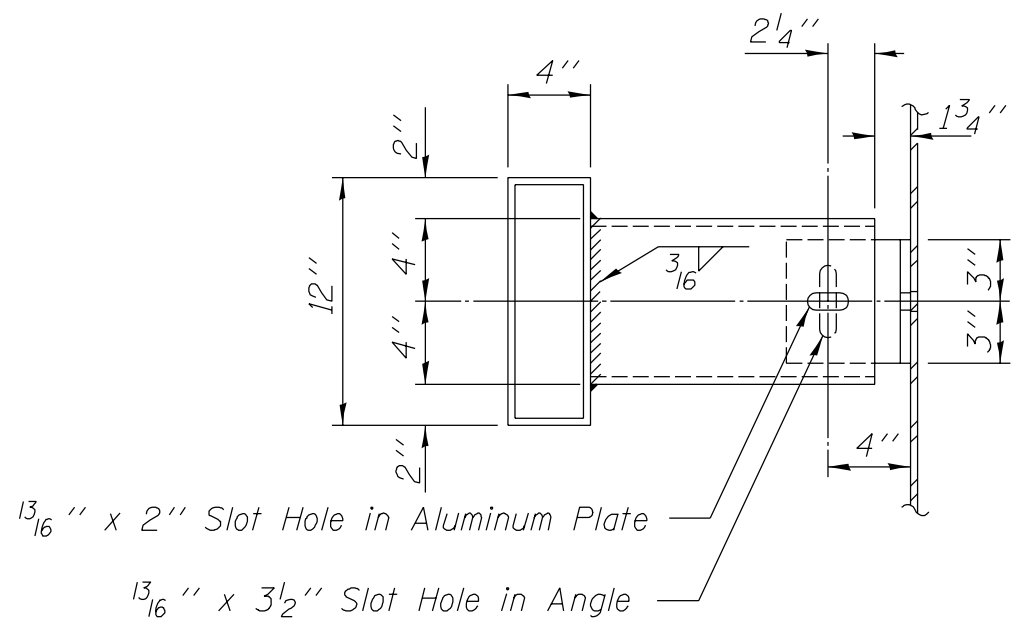
Cell Name: D4X12
Descrip: 4 in x 12 in drain details



TOP PLAN



SECTION B-B

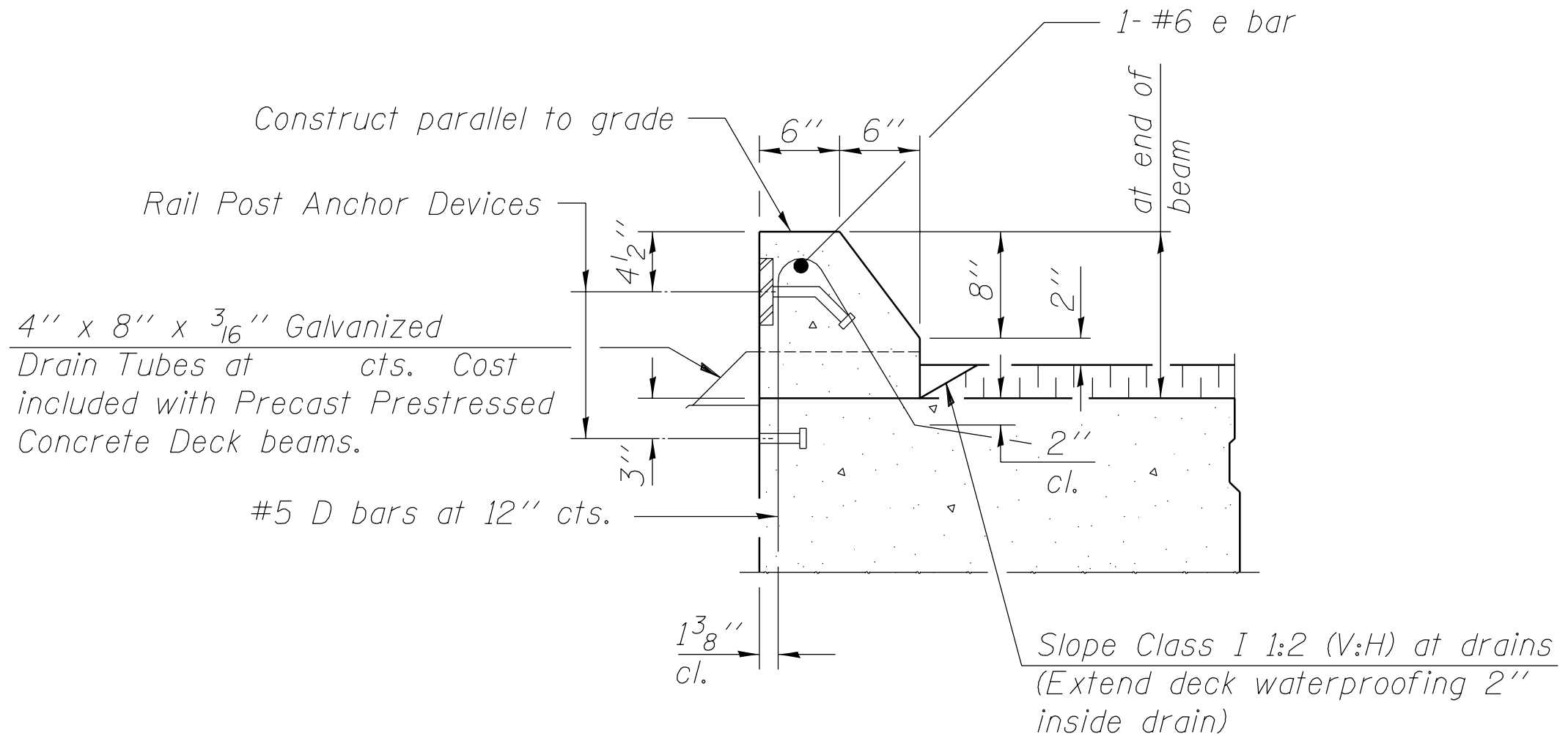


SECTION A-A

Notes: The exterior surfaces of the floor drains shall be painted with the finish coat as specified in the special provisions for Cleaning and Painting New Metal Structures. The exterior surfaces of the drain shall be cleaned and given a washcoat pretreatment in accordance with Steel Structures Painting Council's Spec. SSPC-SP1 & SSPC Paint 27 prior to painting.

Cell Name: DDI/004

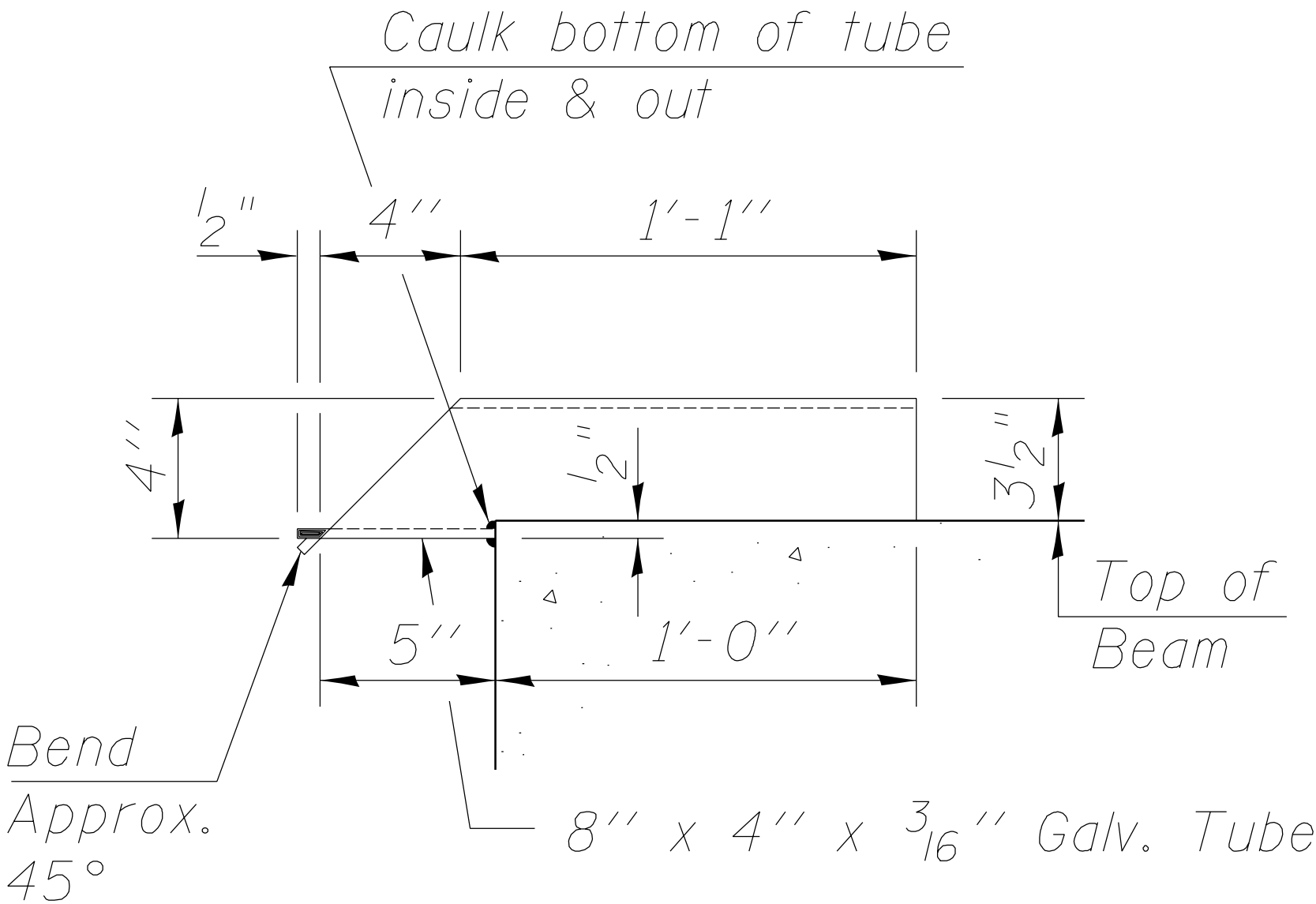
Descrip: Curb section for deck beams with Type T railing



SECTION THRU CURB

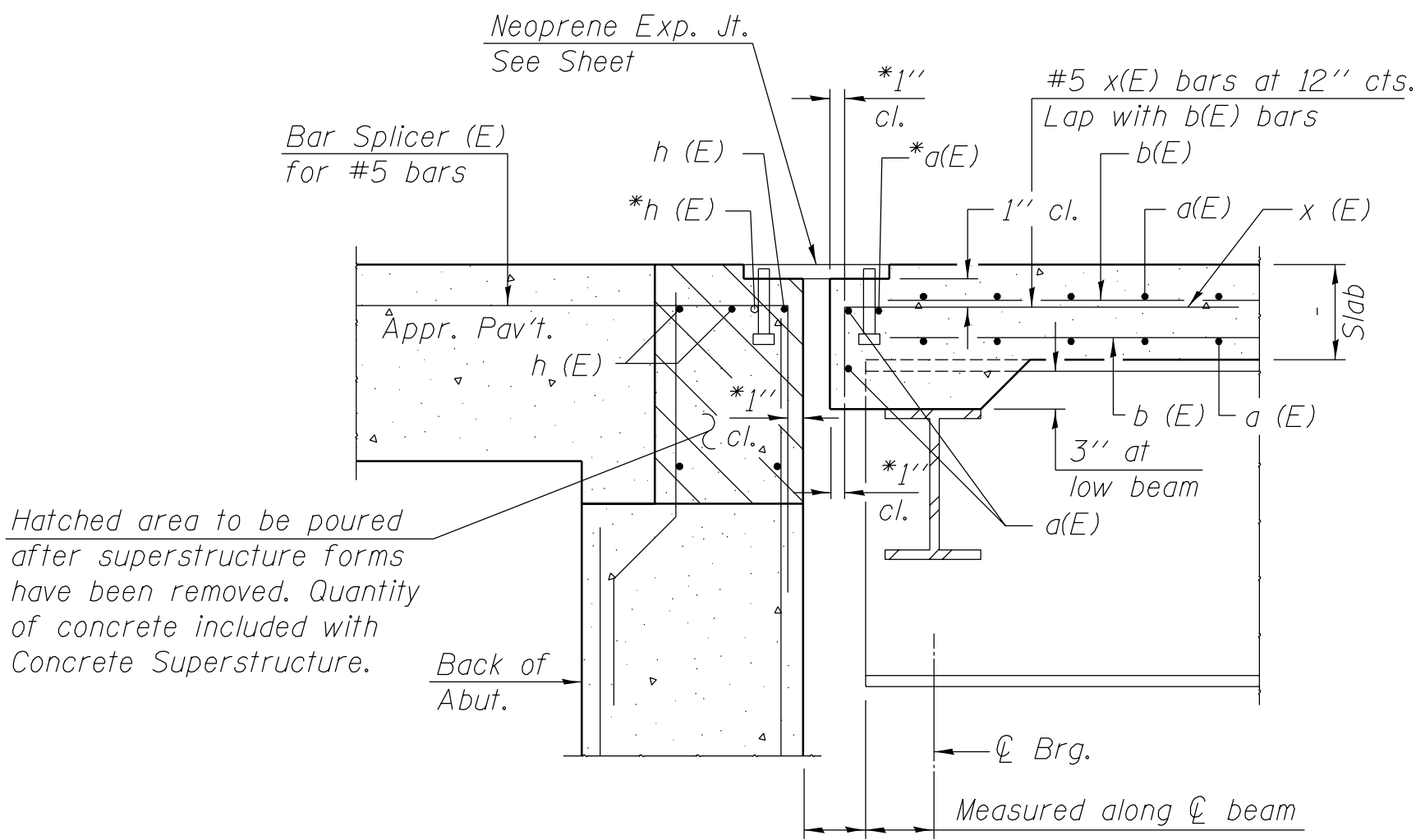
Curbs shall be poured in the field.

Cell Name: DDI005
Descrip: Drain detail for PPC deck beams



DRAIN DETAIL

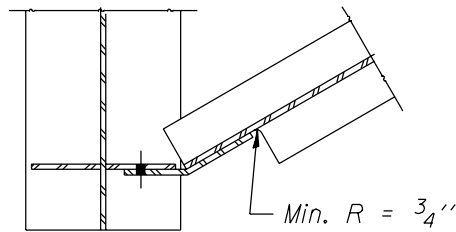
Cell Name: DD7001
Descrip: Section at abutment with Neoprene Expansion Joint



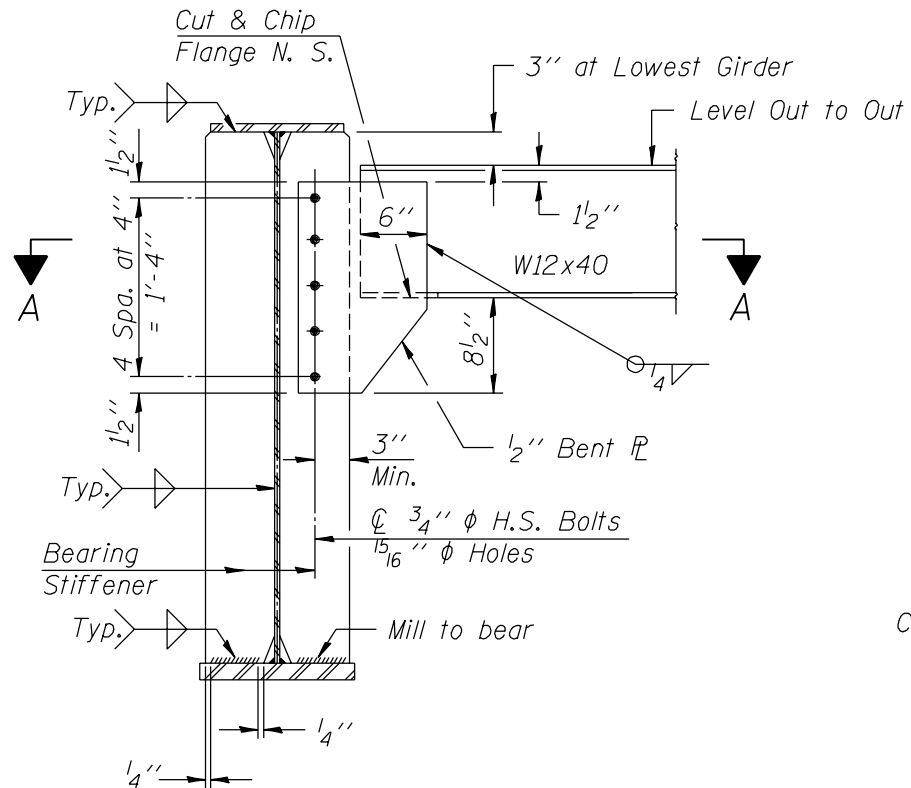
SECTION A - A

* Place a(E) and h (E) bars in back of anchor bolt as shown if required to maintain 1'' cl. (+0-1/8''). Anchor bolts should be tied to a(E) and h (E) bars.

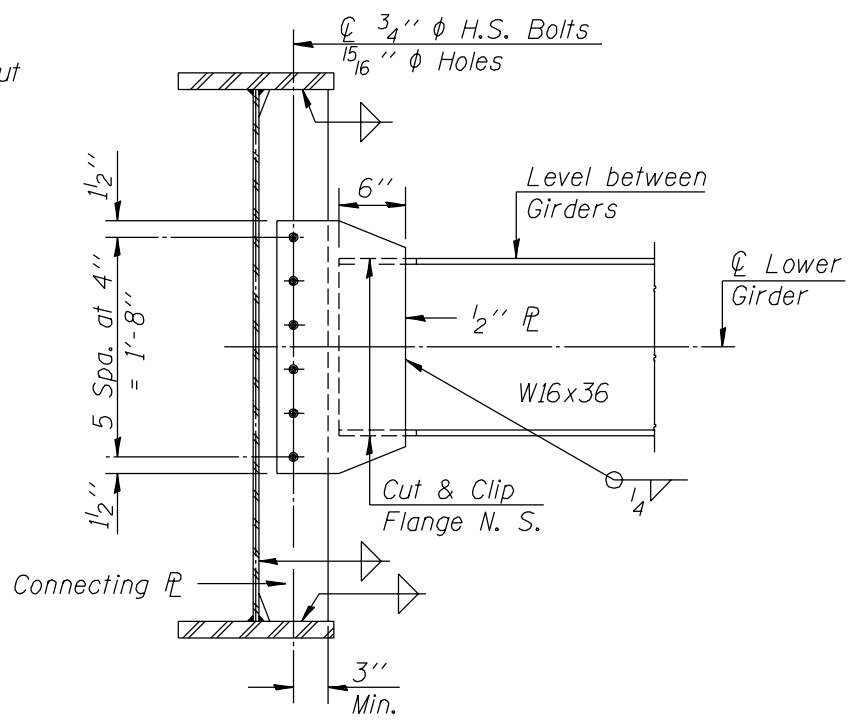
Cell Name: DIAPH
Descrip: Diaphragm details for girders < 48"



SECTION A-A



DIAPHRAGM D
Required

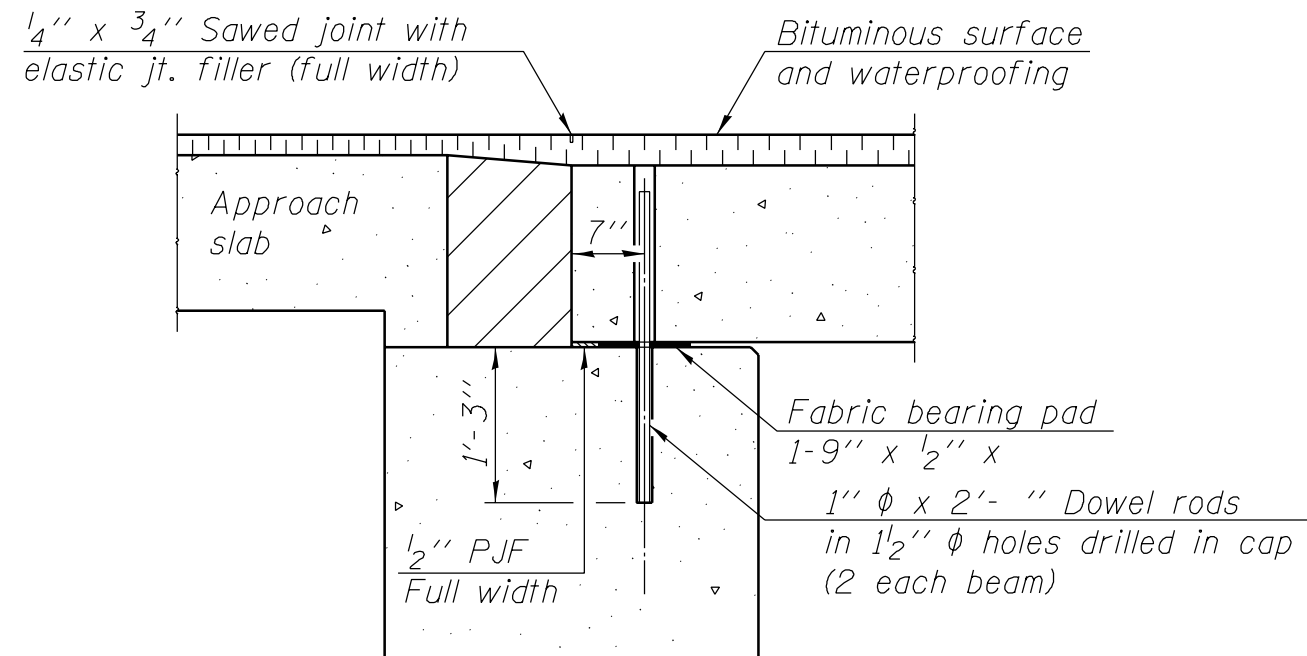


DIAPHRAGM D1
Required

Note:
Two hardened washers shall be required over all oversized holes.

Cell Name: DKBM01

Descrip: Section thru fixed abutment for 11" or 17" PPC deck beams with bit surface and waterproofing



SECTION THRU ABUTMENT

Notes :

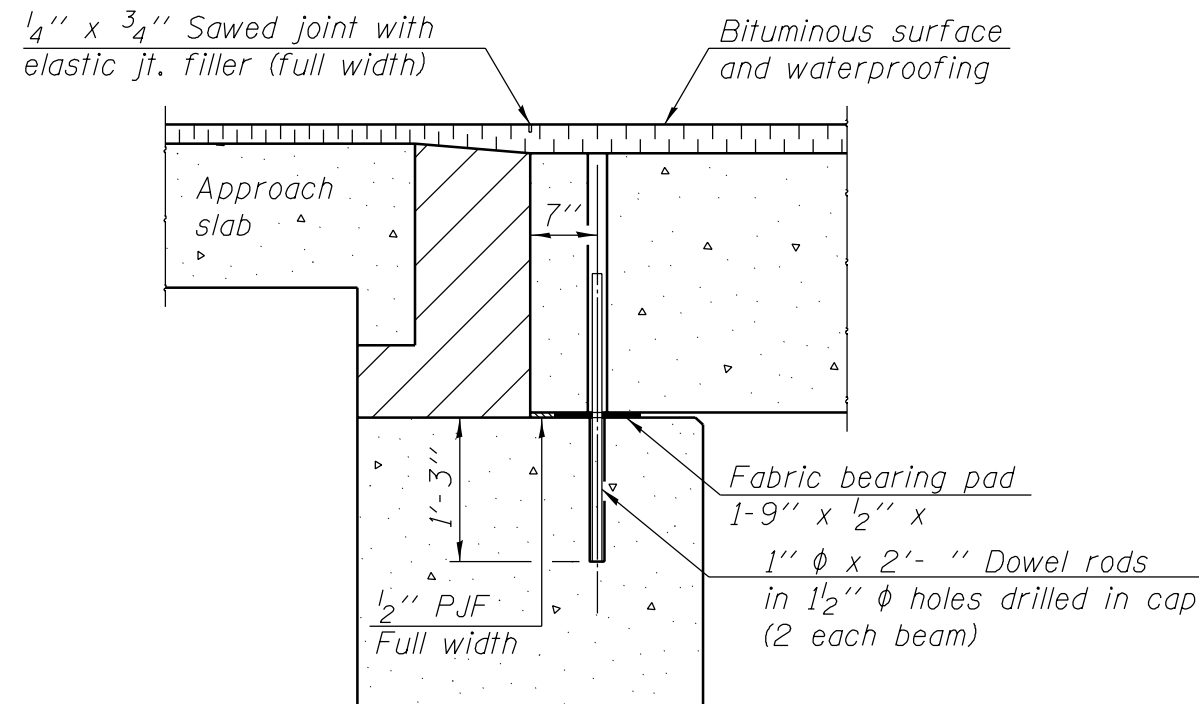
After beams have been erected, holes shall be drilled into substructure and anchor dowels placed. Dowel holes shall be filled with non-shrink grout to top of beam and allowed to cure min. 24 hrs. prior to grouting the shear keys.

All horizontal dimensions are at right angles to beam ends. Hatched area to be poured after beams are in place.

See sheet - of - for bearing pad details.

Cell Name: DKBM02

Descrip: Section thru fixed abutment for 21" thru 33" PPC deck beams with bit surface and waterproofing



SECTION THRU ABUTMENT

Notes :

After beams have been erected, holes shall be drilled into substructure and anchor dowels placed. Dowel holes shall be filled with non-shrink grout to top of beam and allowed to cure min. 24 hrs. prior to grouting the shear keys.

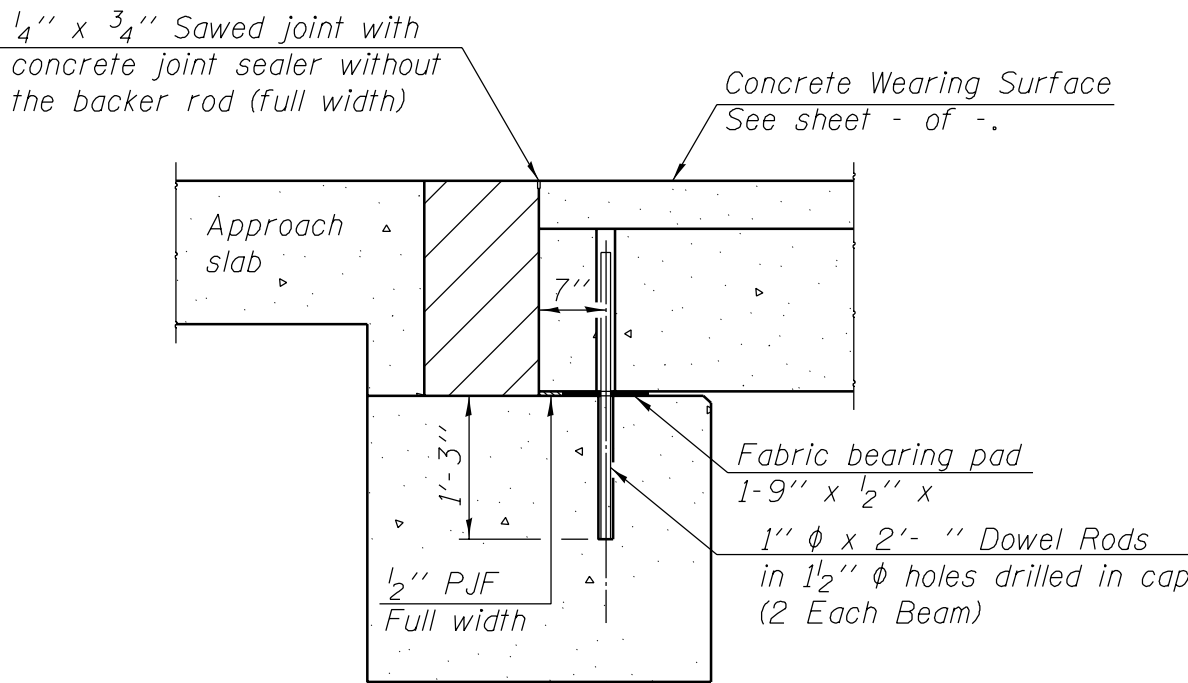
All horizontal dimensions are at right angles to beam ends.

Hatched area to be poured after beams are in place.

See sheet - of - for bearing pad details.

Cell Name: DKBM03

Descrip: Section thru fixed abutment for 11" or 17" PPC deck beams with concrete wearing surface



SECTION THRU ABUTMENT

Notes :

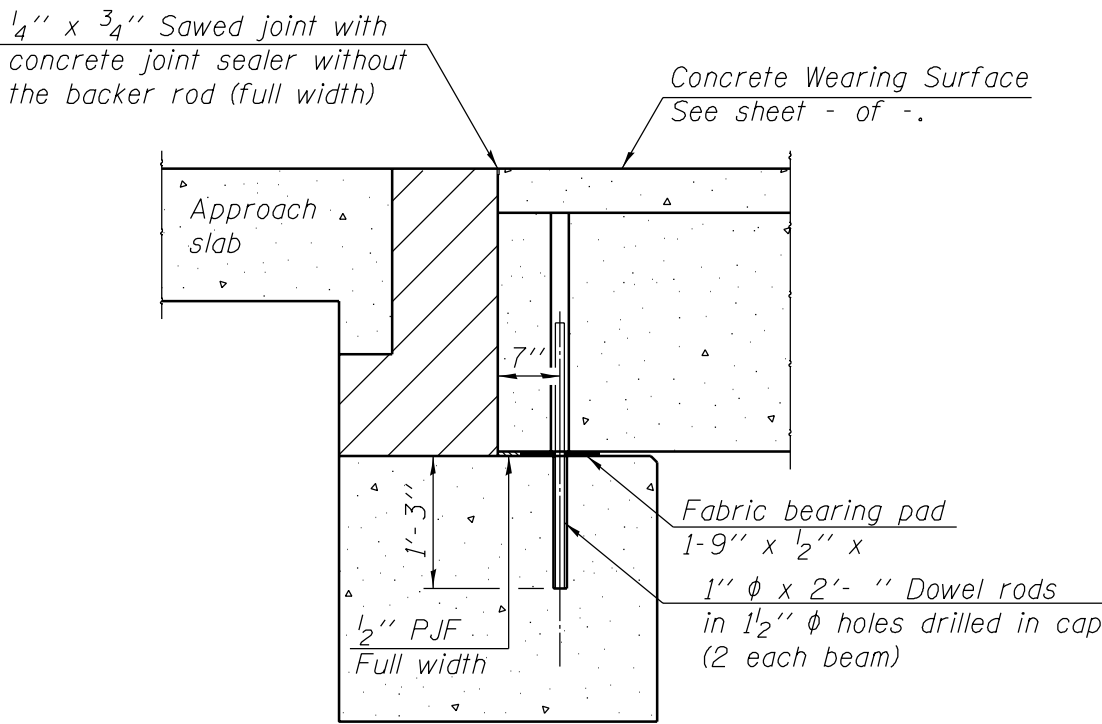
After beams have been erected, holes shall be drilled into substructure and anchor dowels placed. Dowel holes shall be filled with non-shrink grout to top of beam and allowed to cure min. 24 hrs. prior to grouting the shear keys.

All horizontal dimensions are at right angles to beam ends.
Hatched area to be poured after concrete wearing surface is in place.

See sheet - of - for bearing pad details.

Cell Name: DKBM04

Descrip: Section thru fixed abutment for 21" thru 33" PPC deck beams with concrete wearing surface



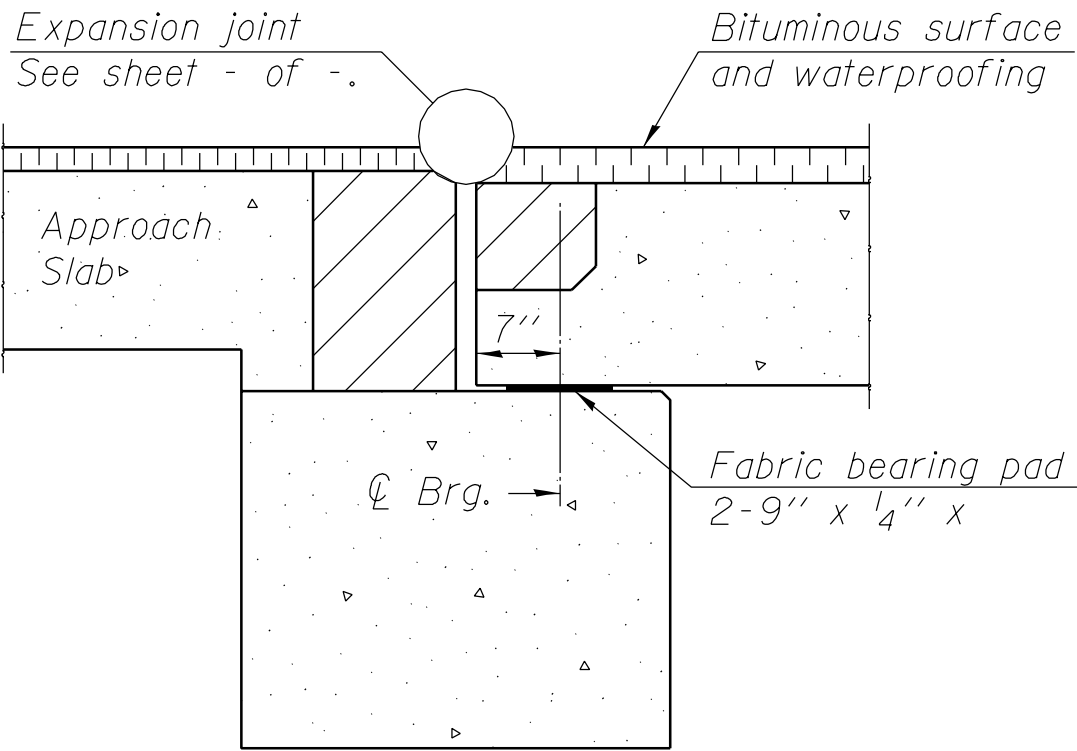
SECTION THRU ABUTMENT

Notes :

After beams have been erected, holes shall be drilled into substructure and anchor dowels placed. Dowel holes shall be filled with non-shrink grout to top of beam and allowed to cure min. 24 hrs. prior to grouting the shear keys.
All horizontal dimensions are at right angles to beam ends.
Hatched area to be poured after concrete wearing surface is in place.
See sheet - of - for bearing pad details.

Cell Name: DKBM05

Descrip: Section thru expansion abutment for 17" PPC deck beams with bit surface and waterproofing



SECTION THRU ABUTMENT

Notes :

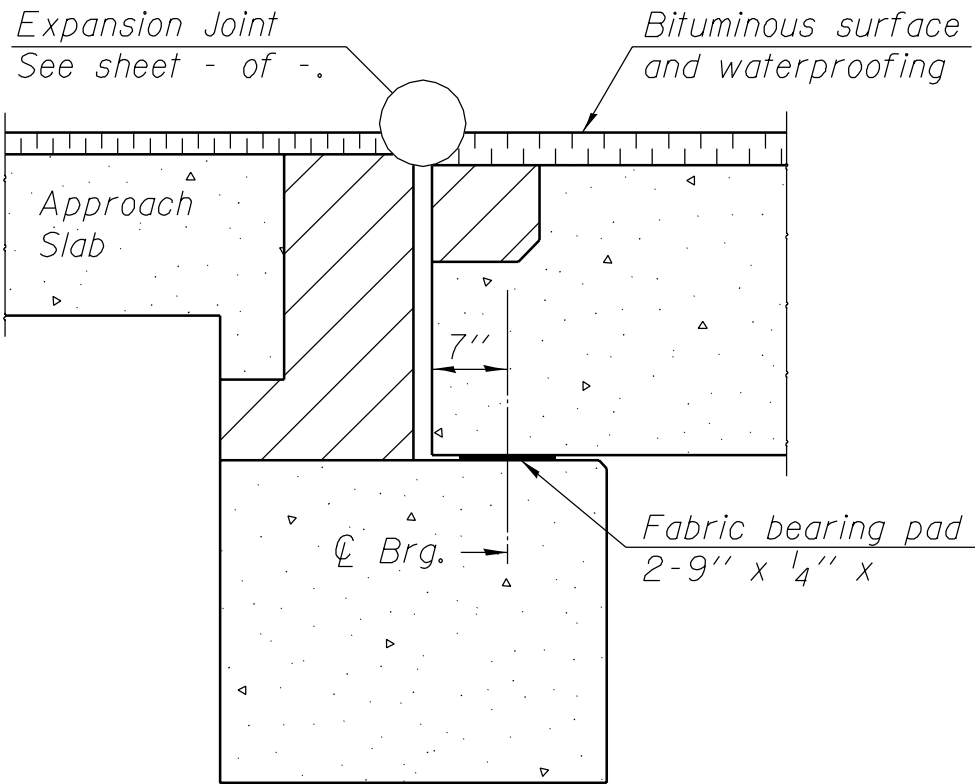
All horizontal dimensions are at right angles to beam ends.

Hatched area to be poured after beams are in place.

See sheet - of - for bearing pad details.

Cell Name: DKBM06

Descrip: Section thru expansion abutment for 21" thru 33" PPC deck beams with bit surface and waterproofing

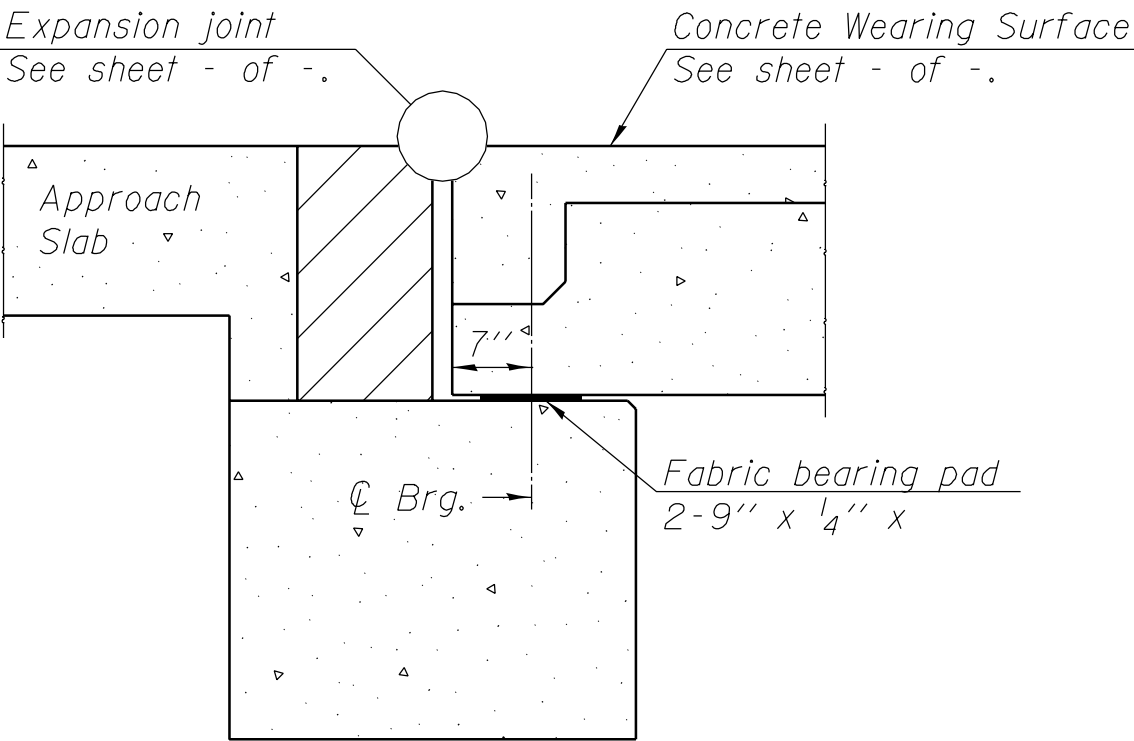


SECTION THRU ABUTMENT

Notes :
All horizontal dimensions are at right angles to beam ends.
Hatched area to be poured after beams are in place.
See sheet - of - for bearing pad details.

Cell Name: DKBM07

Descrip: Section thru expansion abutment for 17" PPC deck beams with concrete wearing surface

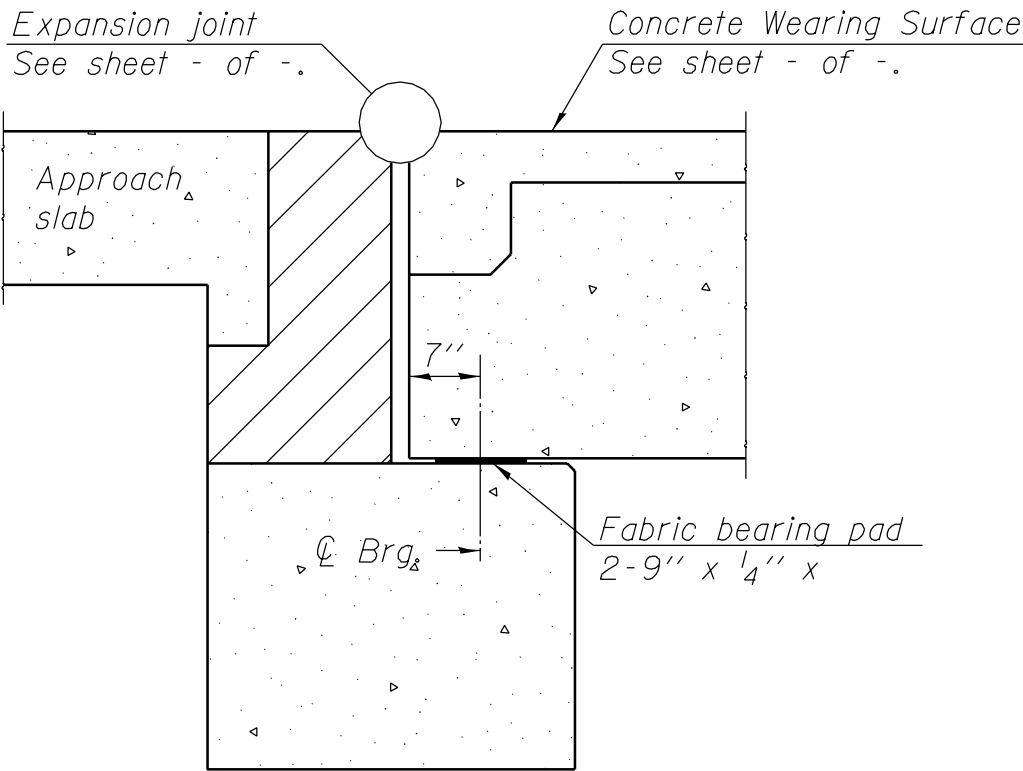


SECTION THRU ABUTMENT

Notes :
All horizontal dimensions are at right angles to beam ends.
Hatched area to be poured after concrete wearing surface is in place.
See sheet - of - for bearing pad details.

Cell Name: DKBM08

Descrip: Section thru expansion abutment for 21" thru 33" PPC deck beams with concrete wearing surface

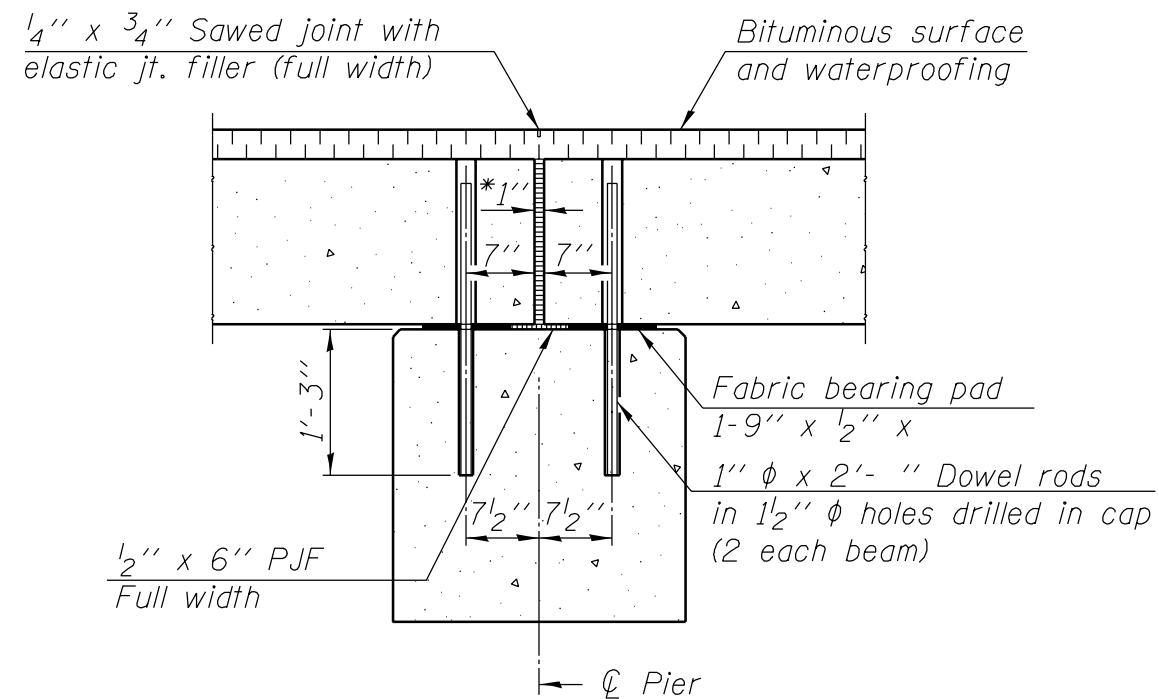


SECTION THRU ABUTMENT

Notes :
All horizontal dimensions are at right angles to beam ends.
Hatched area to be poured after concrete wearing surface is in place.
See sheet - of - for bearing pad details.

Cell Name: DKBM09

Descrip: Section thru fixed pier with bituminous surface and waterproofing



SECTION THRU FIXED PIER

* $1''$ Jt. shall be filled with non-shrink grout. $1''$ dimension may vary to accommodate tolerance in beam lengths.

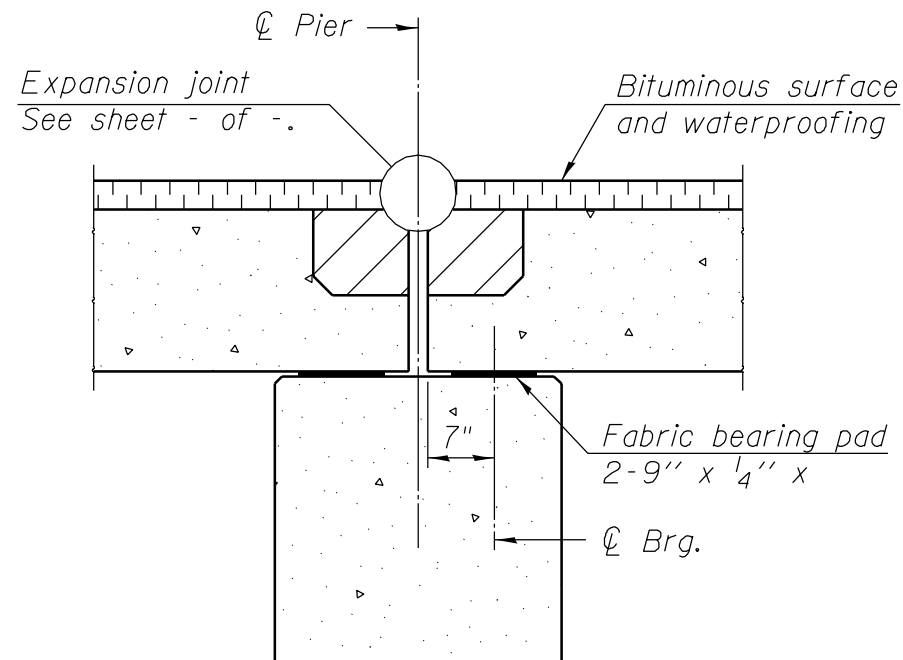
Notes :

After beams have been erected, holes shall be drilled into substructure and anchor dowels placed. Dowel holes shall be filled with non-shrink grout to top of beam and allowed to cure min. 24 hrs. prior to grouting the shear keys.

All horizontal dimensions are at right angles to beam ends.
Hatched area to be poured after beams are in place.
See sheet - of - for bearing pad details.

Cell Name: DKBM10

Descrip: Section thru expansion pier with bituminous surface and waterproofing



SECTION THRU EXPANSION PIER

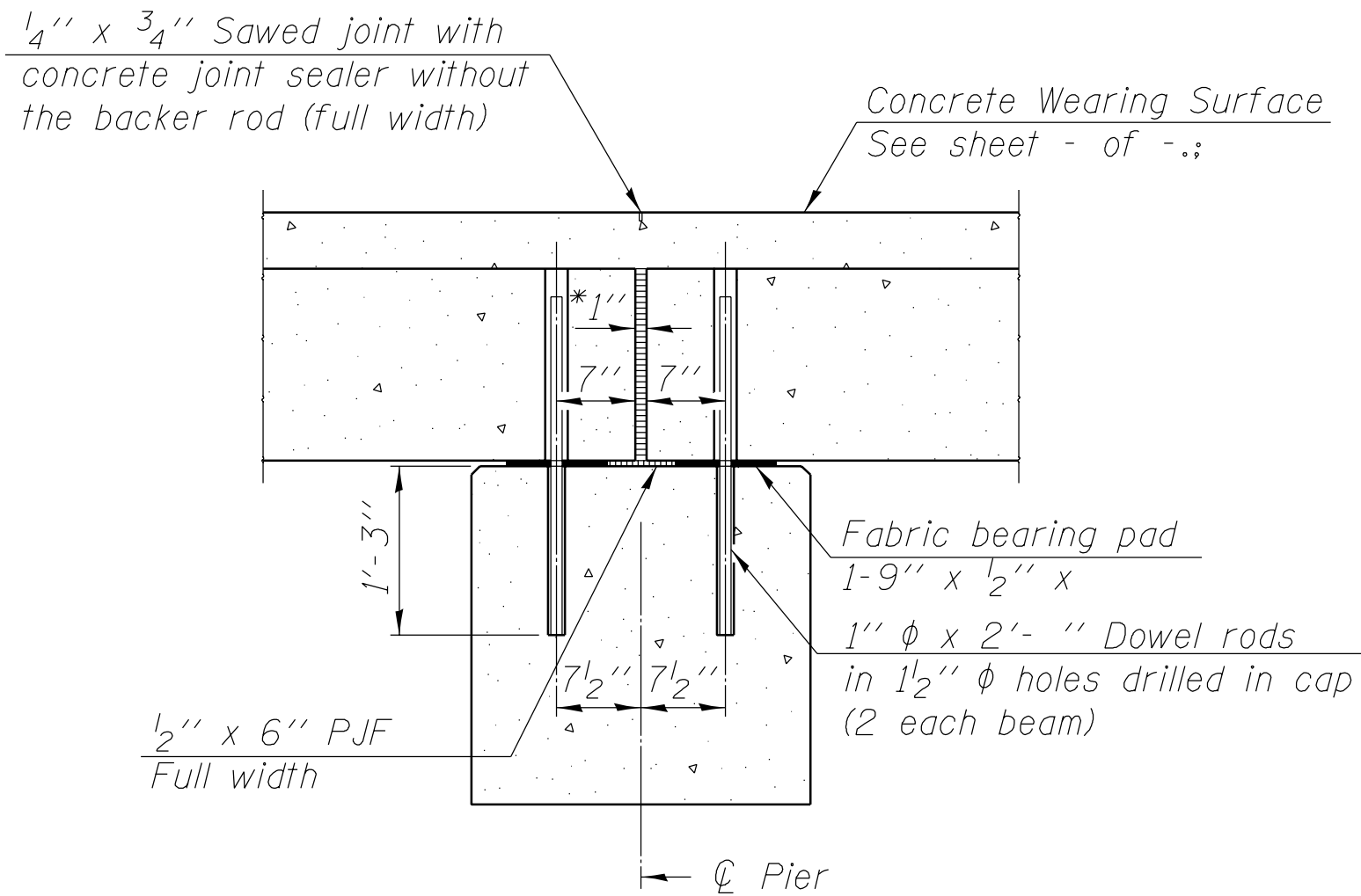
Notes :

After beams have been erected, holes shall be drilled into substructure and anchor dowels placed. Dowel holes shall be filled with non-shrink grout to top of beam and allowed to cure min. 24 hrs. prior to grouting the shear keys.

All horizontal dimensions are at right angles to beam ends.
Hatched area to be poured after beams are in place.
See sheet - of - for bearing pad details.

Cell Name: DKBMII

Descrip: Section thru fixed pier with concrete wearing surface

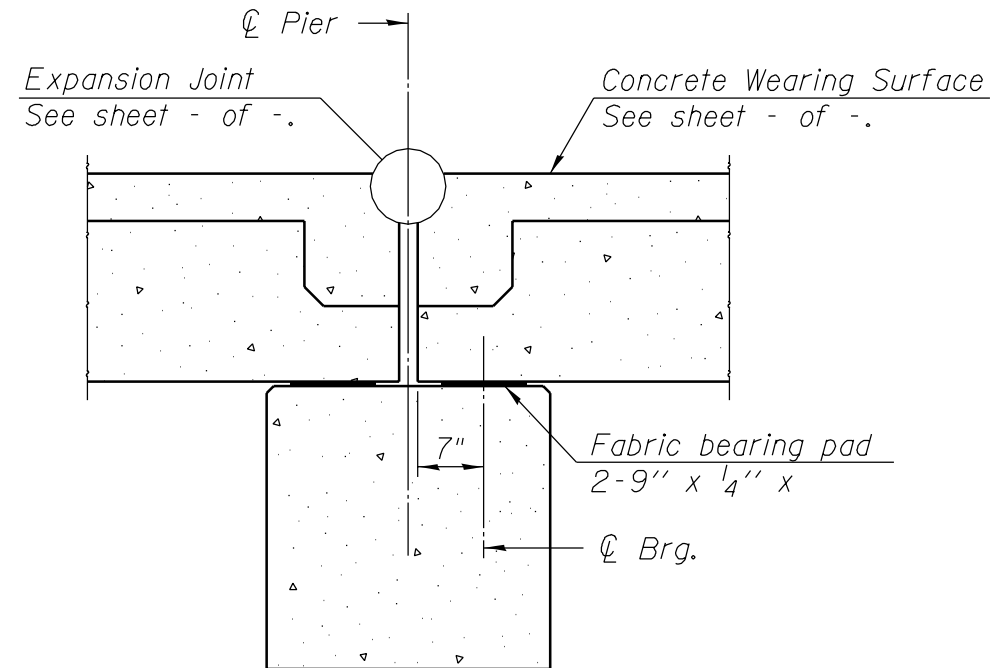


SECTION THRU FIXED PIER

*1'' Jt. shall be filled with non-shrink grout. 1'' dimension may vary to accommodate tolerance in beam lengths.

Cell Name: DKBM12

Descrip: Section thru expansion pier with concrete wearing surface



SECTION THRU EXPANSION PIER

Notes :

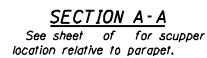
After beams have been erected, holes shall be drilled into substructure and anchor dowels placed. Dowel holes shall be filled with non-shrink grout to top of beam and allowed to cure min. 24 hrs. prior to grouting the shear keys.

All horizontal dimensions are at right angles to beam ends.

Hatched area to be poured after beams are in place.

See sheet - of - for bearing pad details.

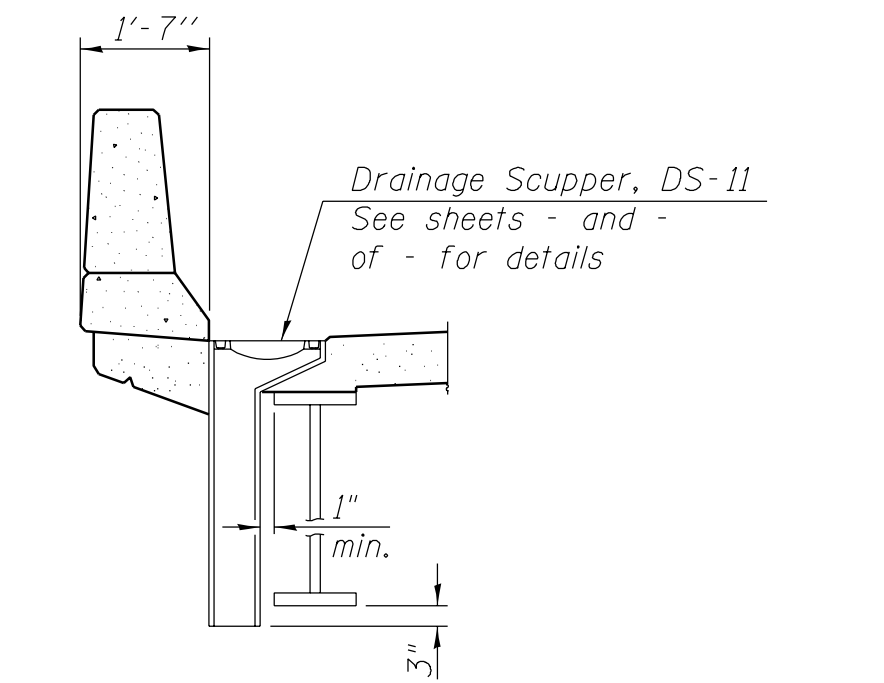
Descrip: Drainage Scupper, DS-II



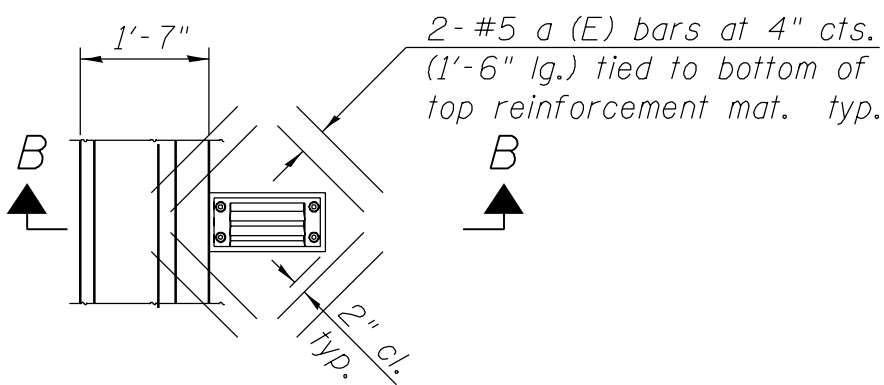
8-11-02

DRAINAGE SCUPPER, DS-II

Cell Name: DSIII
Descrip: Drainage Scupper, DS-II details, left drain

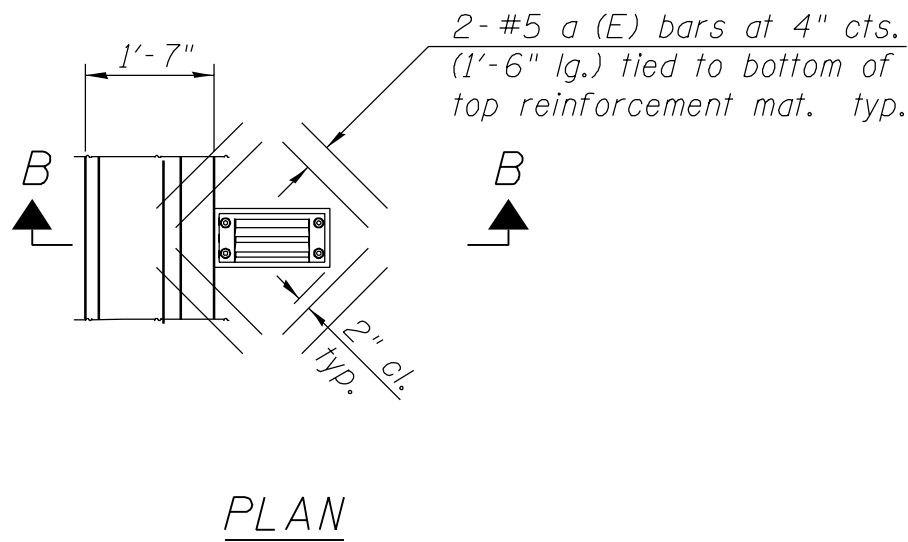
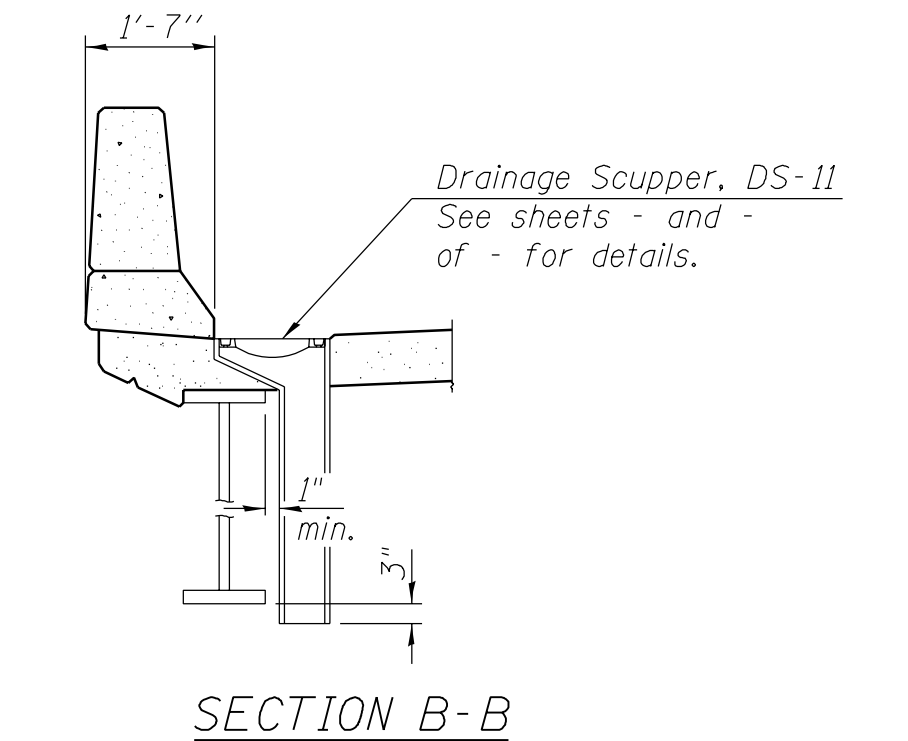


SECTION B-B

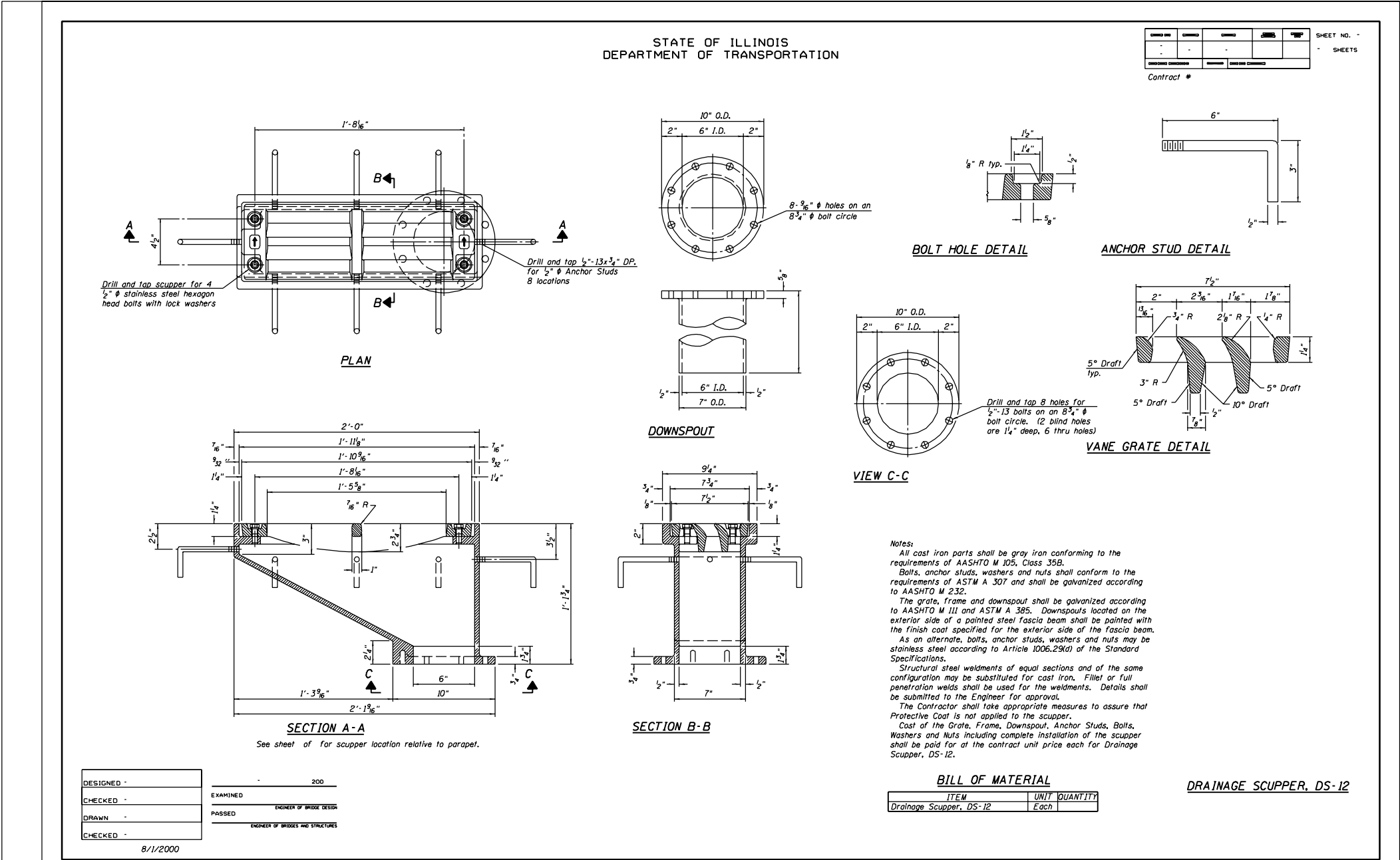


PLAN

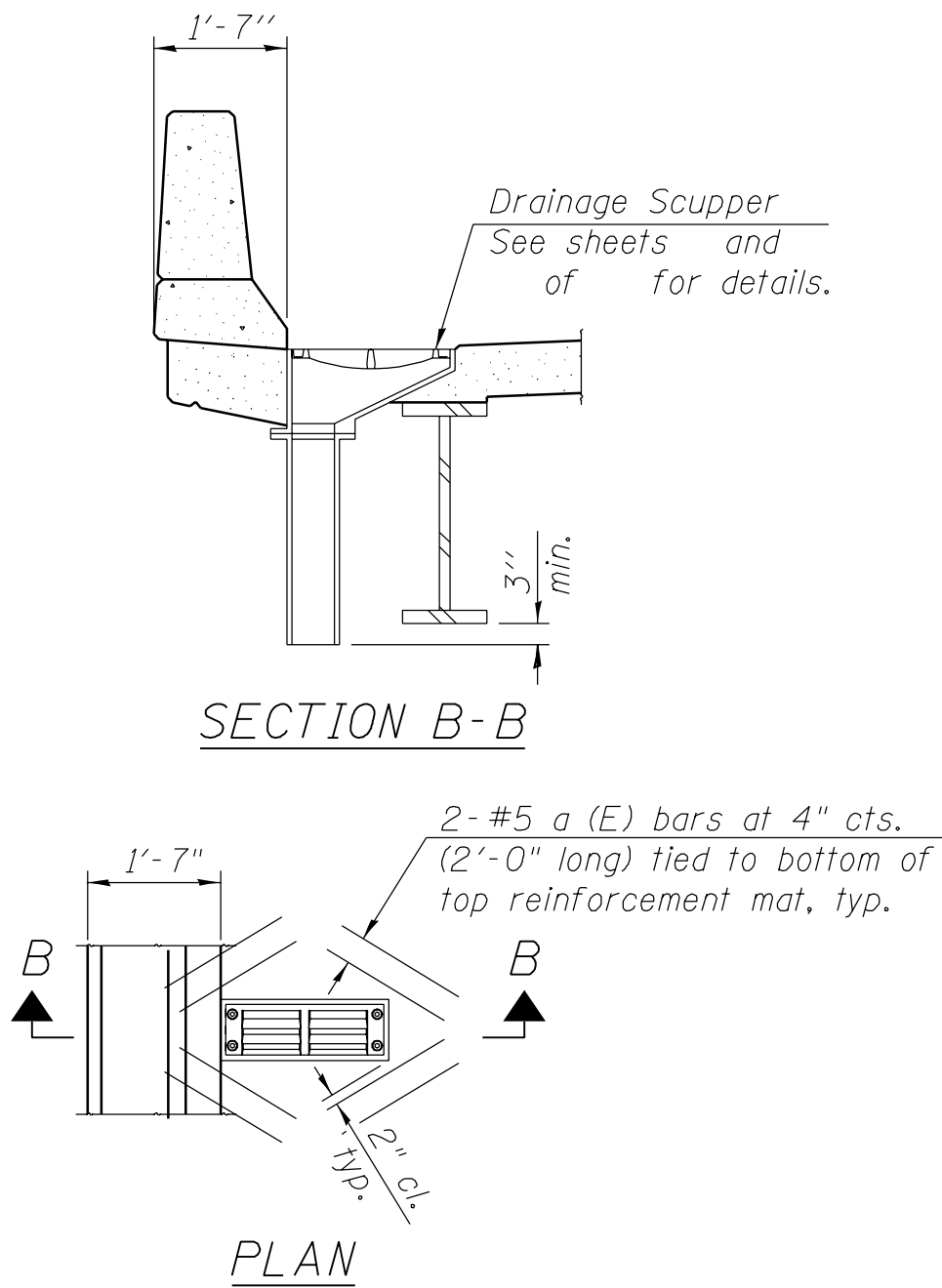
Cell Name: DSIIR
Descrip: Drainage Scupper, DS-II details, right drain



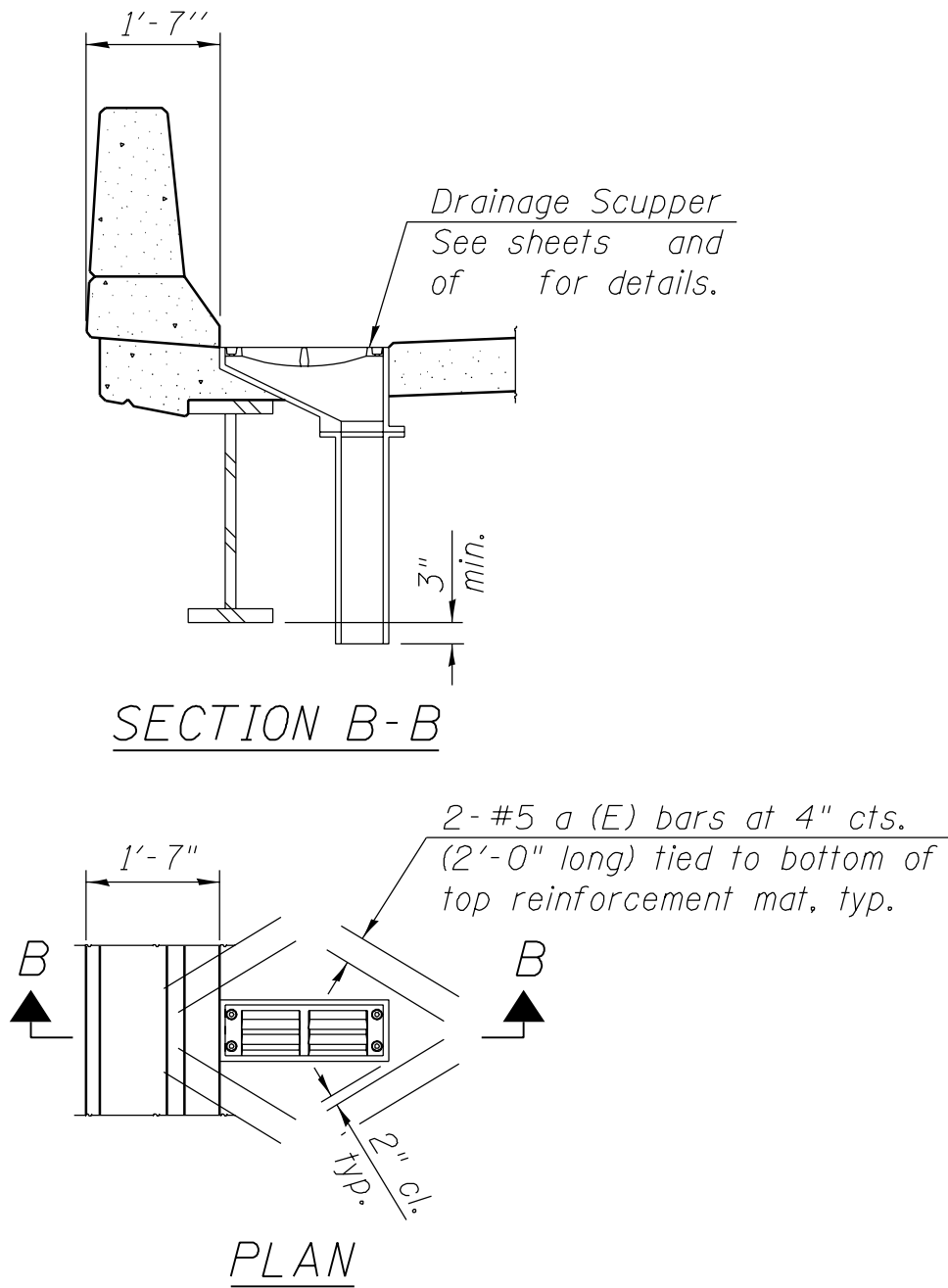
Cell Name: DS-12
Descrip: Drainage Scupper, DS-12



Cell Name: DS12L
Descrip: Drainage Scupper, DS-12 details, left drain



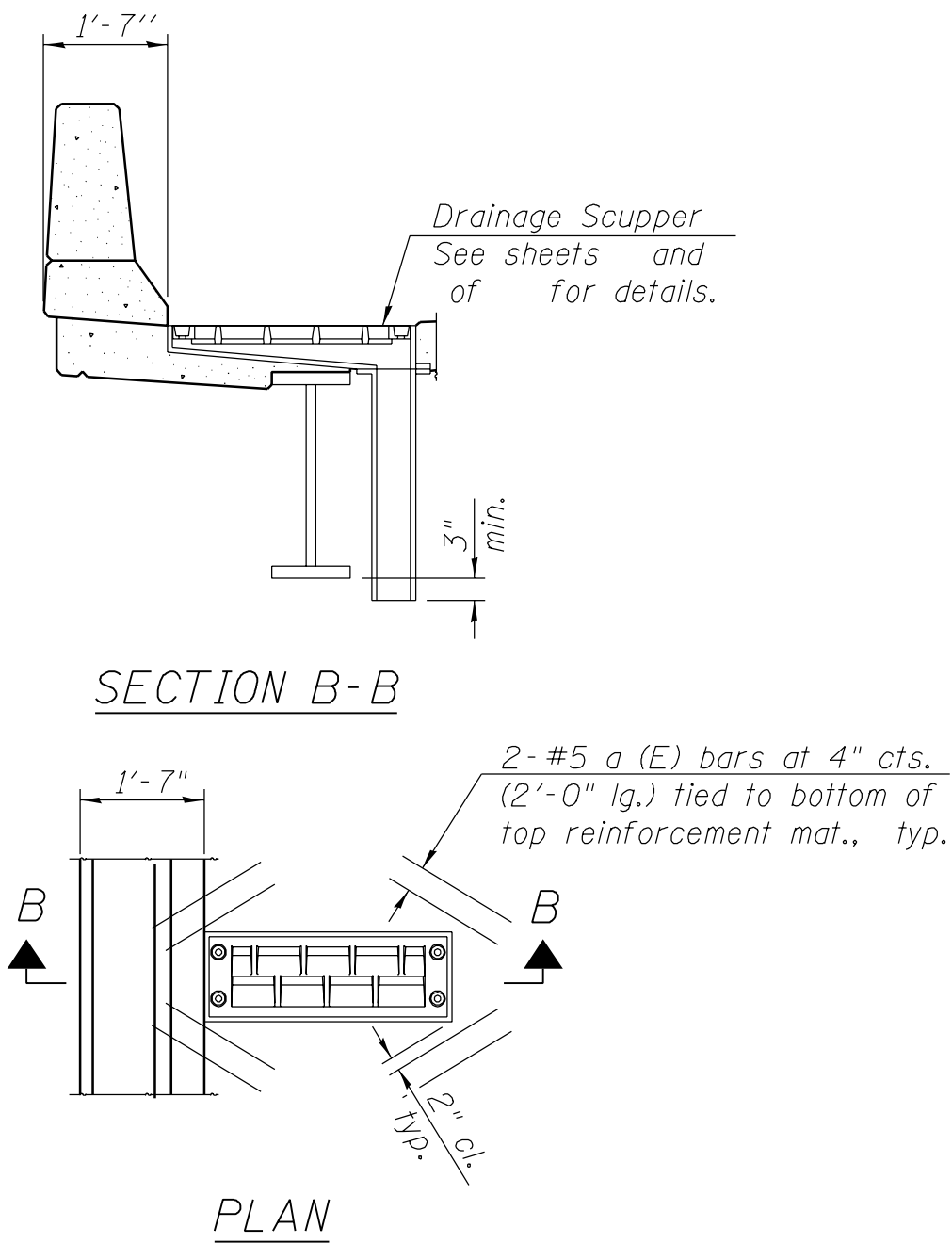
Cell Name: DS12R
Descrip: Drainage Scupper, DS-12 details, right drain



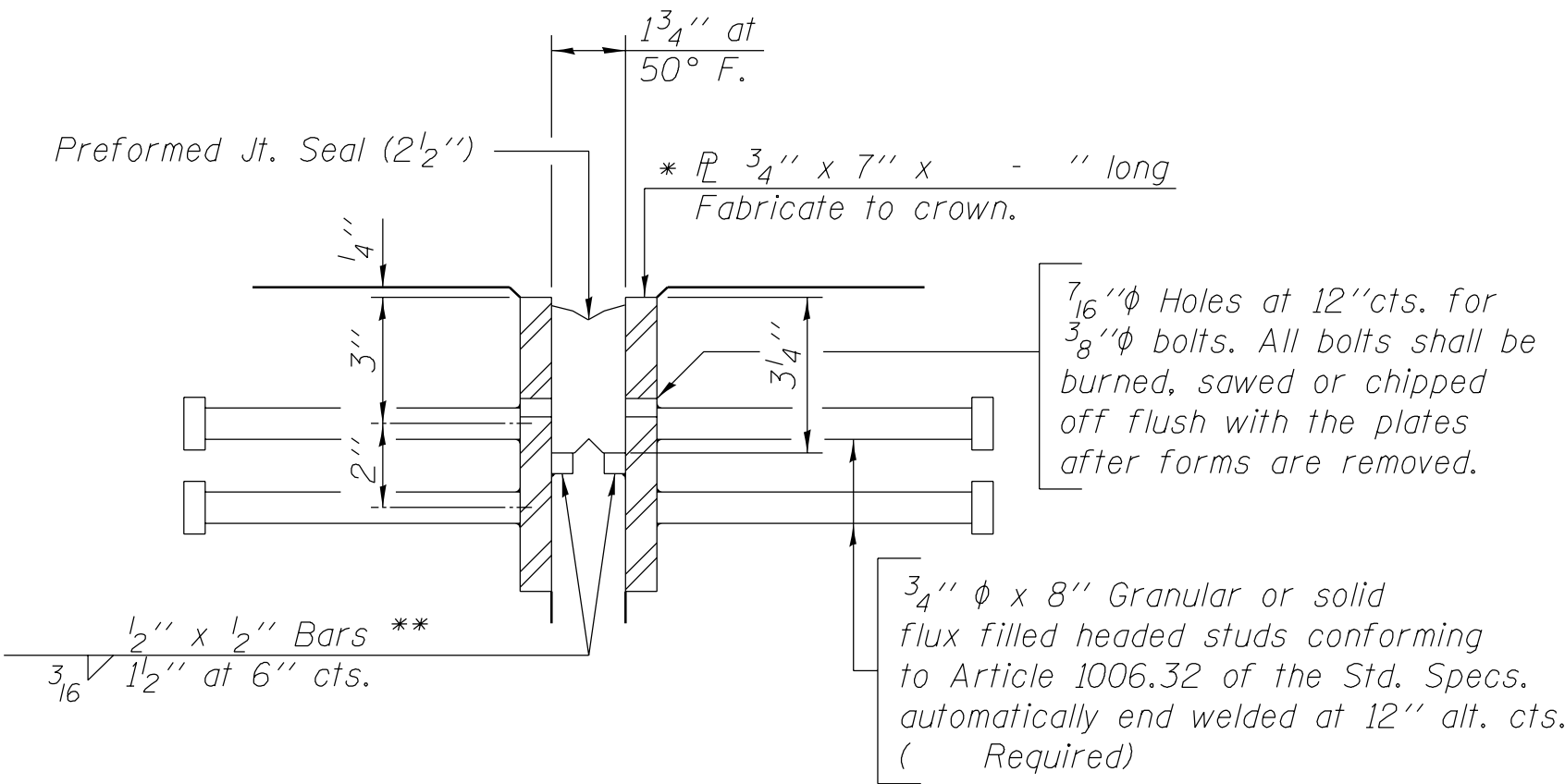
Descrip: Drainage Scupper, DS-33



Cell Name: DS33R
Descrip: Drainage Scupper, DS-33 details, right drain



Cell Name: EXPJT
Descrip: 2 1/2" PJS no wearing surface



DETAIL A

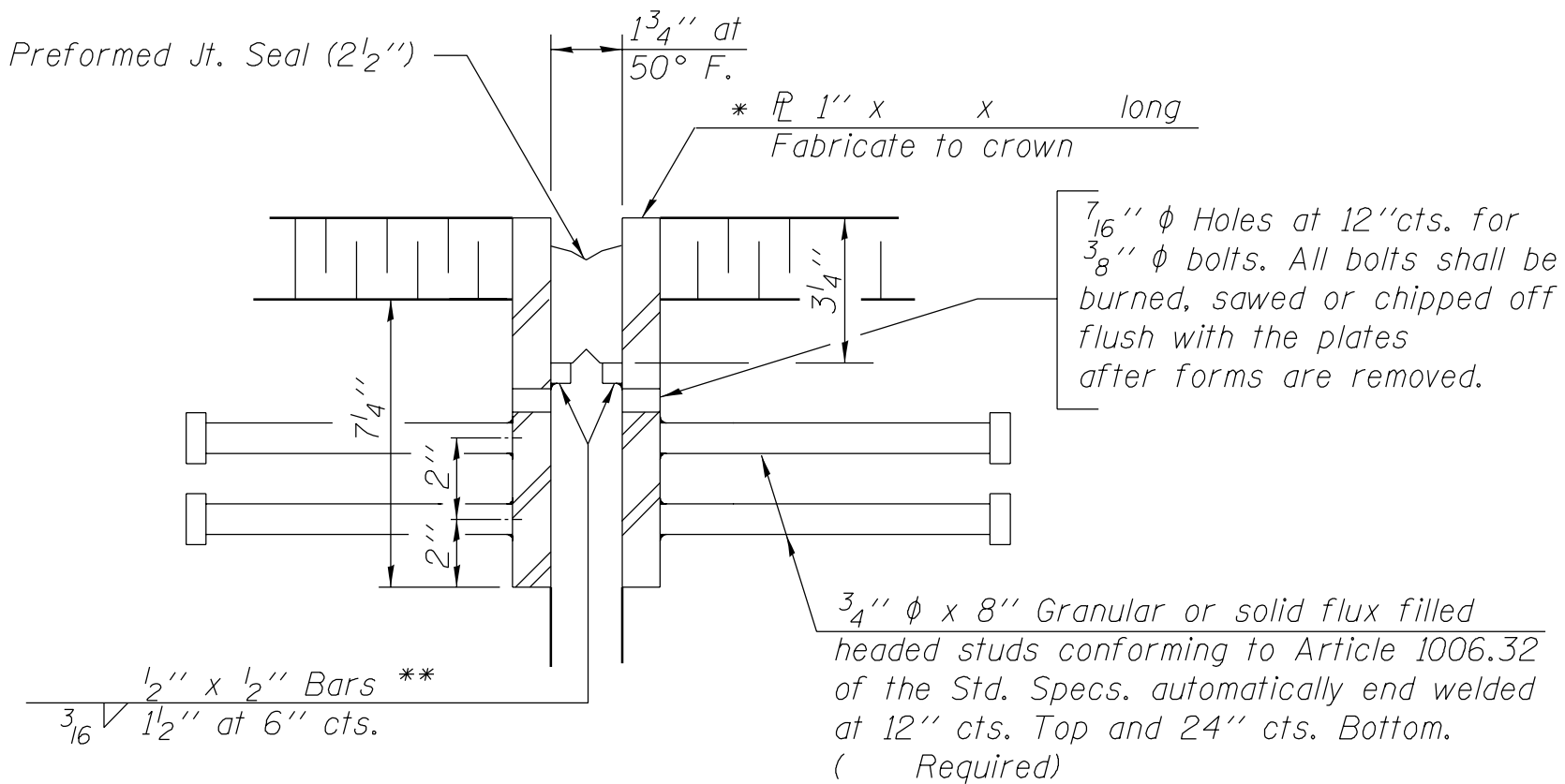
- * Furnish in segments of 20 ft. maximum length. Maximum space between installed segments shall be $\frac{3}{16}''$. Seal space with Silicone Sealant suitable for Structural Steel.
- ** Cut retainer bars in sidewalk or median 6" short of the sidewalk or median face.

Descrip: 4" PJS no wearing surface



- * Furnish in segments of 20 ft. maximum length. Maximum space between installed segments shall be $\frac{3}{16}$ ". Seal space with Silicone Sealant suitable for Structural Steel.
- ** Cut retainer bars in sidewalk or median 6" short of the sidewalk or median face.

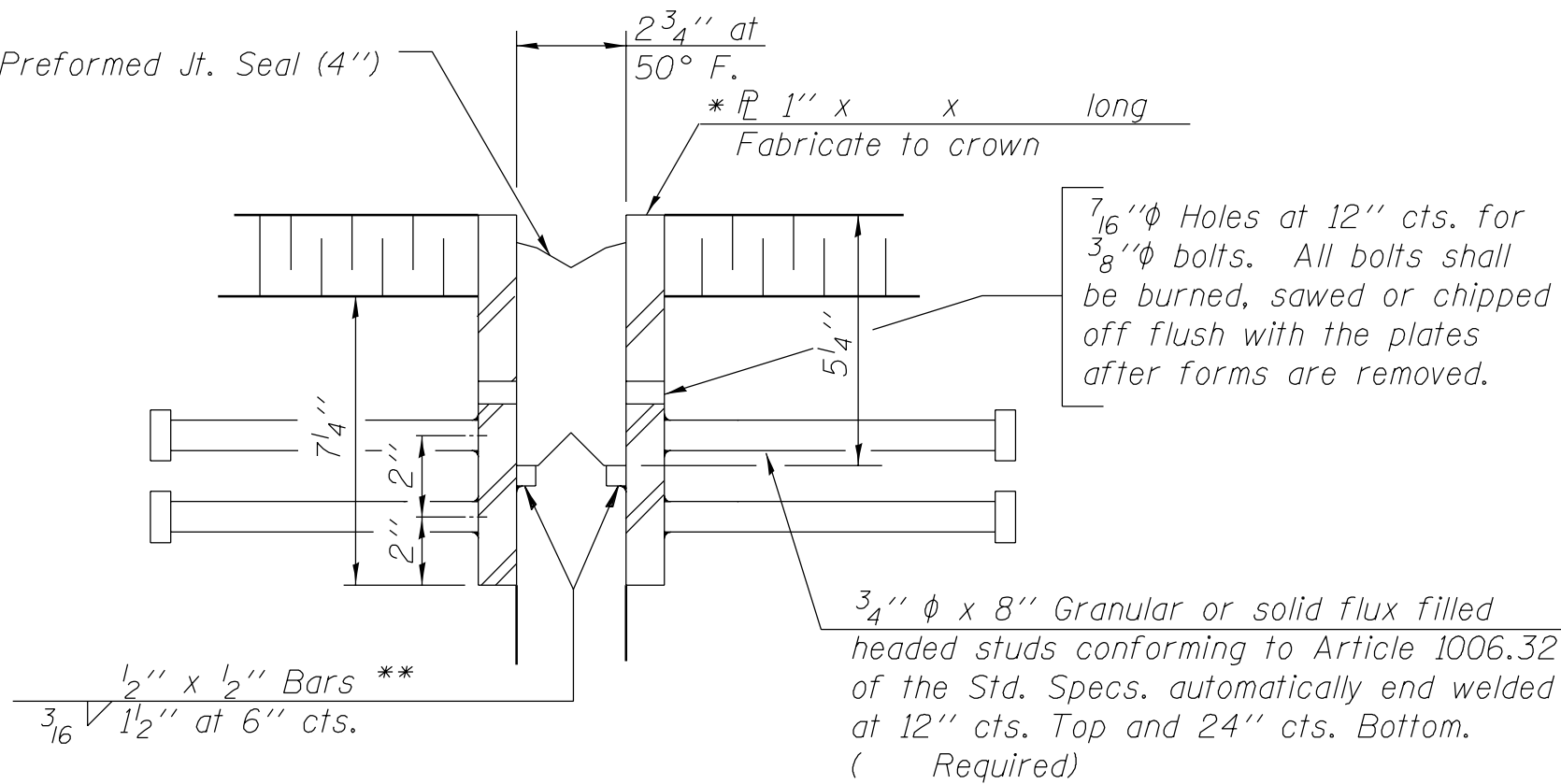
Cell Name: EXPJT2
Descrip: 2 1/2" PJS with wearing surface



DETAIL A

- * Furnish in segments of 20 ft. maximum length. Maximum space between installed segments shall be 3/16". Seal space with Silicone Sealant suitable for Structural Steel.
- ** Cut retainer bars in sidewalk or median 6" short of the sidewalk or median face.

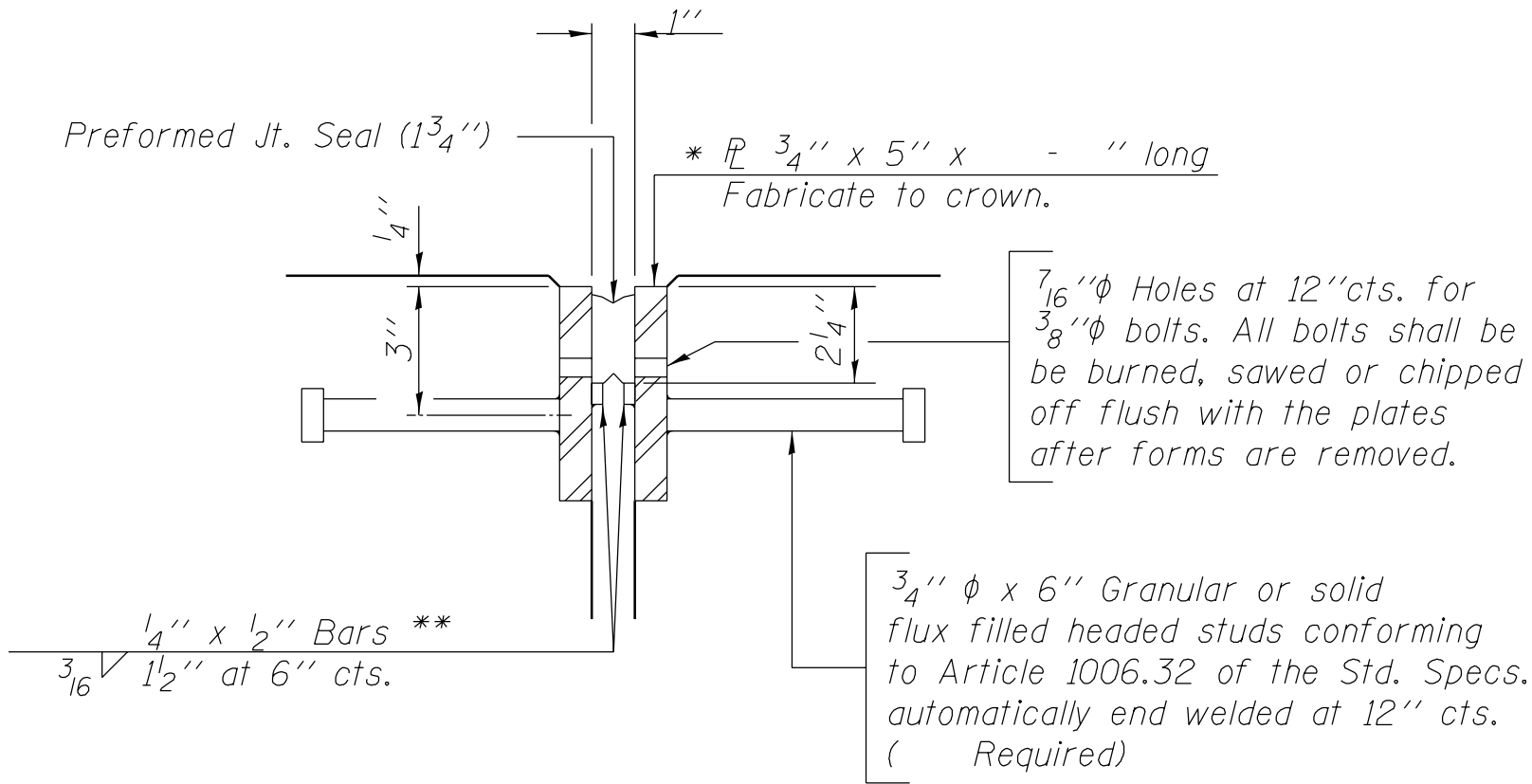
Cell Name: EXPJT3
Descrip: 4" PJS with wearing surface



DETAIL A

- * Furnish in segments of 20 ft. maximum length. Maximum space between installed segments shall be 3/16". Seal space with Silicone Sealant suitable for Structural Steel.
- ** Cut retainer bars in sidewalk or median 6" short of the sidewalk or median face.

Cell Name: EXPJT4
Descrip: 1 3/4" PJS no wearing surface



DETAIL A

- * Furnish in segments of 20 ft. maximum length. Maximum space between installed segments shall be 3/16". Seal space with Silicone Sealant suitable for Structural Steel.
- ** Cut retainer bars in sidewalk or median 6" short of the sidewalk or median face.

Cell Name: GNI
Descrip: General note 1

Fasteners shall be high strength bolts (AASHTO M 164, Type 3 in unpainted areas and mechanically galvanized AASHTO M 164, Type 1 or 2 in painted areas).
Bolts ϕ , open holes ϕ , unless otherwise noted.

Cell Name: GN2

Descrip: General Note 2

Calculated weight of Structural Steel =

Cell Name: GN3

Descrip: General note 3

Cast steel shall be Class . Structural steel weldments of equal sections and meeting AASHTO M may be substituted for castings at the option of the Contractor, subject to approval by the Engineer prior to fabrication. No additional Compensation will be allowed the Contractor for this substitution.

Cell Name: GN4

Descrip: General Note 4

Roadway expansion guards shall be assembled in the proper position with the ends in place and shall be left assembled for shop inspection.

Cell Name: GN5

Descrip: General Note 5

The roadway expansion plates shall be flame cut as provided in Article 505.04(k) of the Standard Specifications.

Cell Name: GN6

Descrip: General Note 6

Expansion guards which are not cast in the precast unit shall be fabricated and erected according to Article 503.10(c) of the Standard Specifications and are included in quantity of structural steel.

Cell Name: GN8

Descrip: General Note 8

All structural steel shall be AASHTO M 270 Grade 50W (except expansion joint plates and attached bars which shall be AASHTO M 270 Grade 50).

Cell Name: GN10

Descrip: General Note 10

Expansion joint plates and attached bars shall be shop painted with the inorganic zinc rich primer.

Cell Name: GN14

Descrip: General Note 14

Field welding of construction accessories will not be permitted to beams or girders.

Cell Name: GN15

Descrip: General Note 15

*Anchor bolts shall be set before bolting diaphragms (bolting cross frames)
over supports.*

Cell Name: GN16

Descrip: General Note 16

The structural steel bearing plates of the Elastomeric Bearing Assembly shall conform to the requirements of AASHTO M 270 Grade 50 (AASHTO M 270 Grade 50W).

Cell Name: GN17

Descrip: General Note 17

The main load carrying member components subject to tensile stress shall conform to the Supplemental Requirements for Notch Toughness Zone 2. These components are (the wide flange beams) (the tension flanges, webs) and all splice plate material except fill plates.

Cell Name: GN18

Descrip: General Note 18

*Reinforcement bars shall conform to the requirements of AASHTO M 31
or M 322 Grade 60.*

Cell Name: GN19

Descrip: General Note 19

Slope wall shall be reinforced with welded wire fabric, 6'' x 6'' - W4.0 x W4.0, weighing 58 lbs. per 100 sq. ft.

Cell Name: GN20

Descrip: General Note 20

Layout of slope protection system may be varied in the field to suit ground conditions as directed by the Engineer.

Cell Name: GN2/

Descrip: General Note 2/

The embankment configuration shown shall be the minimum embankment that must be constructed prior to construction of the abutments.

Cell Name: GN23

Descrip: General Note 23

Backfill shall be placed behind the abutment after the superstructure has been poured and the falsework removed. See Article 502.10 of the Standard Specifications.

Cell Name: GN24

Descrip: General Note 24

*The back face of Closed Abutments and their wingwalls (or Retaining Walls)
shall be waterproofed according to Article 503.18 of the Standard Specifications.*

Cell Name: GN25

Descrip: General Note 25

The Contractor shall make allowance for the deflection of forms, shrinkage and settlement of falsework, in addition to allowance for dead load deflection.

Cell Name: GN26

Descrip: General Note 26

Plan dimensions and details relative to existing structure have been taken from existing plans and are subject to nominal construction variations. It shall be the Contractor's responsibility to verify such dimensions and details in the field and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in the scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price for the work.

Cell Name: GN28

Descrip: General Note 28

The top surface of the beams shall be finished according to Article 504.06 of the Standard Specifications except that the surface shall not be roughened by brooming. The finished surface shall be free of depressions or high spots with sharp corners, and the top edge of keys shall be rounded or chamfered a minimum of $\frac{1}{4}$ ".

Cell Name: GN30

Descrip: General Note 30

Protective Coat shall not be applied to surfaces to which Waterproofing Membrane System is applied.

Cell Name: GN31

Descrip: General Note 31

Bearing seat surfaces shall be constructed or adjusted to the designated elevations within a tolerance of $\frac{1}{8}$ inch. Adjustment shall be made either by grinding the surface or by shimming the bearing. Two $\frac{1}{8}$ " adjusting shims, of the dimensions of the bottom bearing plate, shall be provided for each bearing in addition to all other plates or shims. (For Type I Elastomeric Bearings, two $\frac{1}{8}$ " adjusting shims shall be provided for each bearing and placed as detailed).

Cell Name: GN32

Descrip: General Note 32

Concrete piles at abutments shall be driven in holes precored through the embankment according to Article 512.10(c) of the Standard Specifications.

Cell Name: GN33

Descrip: General Note 33

*The Contractor shall drive test piles in a permanent location
at as directed by the Engineer before ordering the remainder
of piles.*

Cell Name: GN34

Descrip: General Note 34

The concrete for bridge floors finished according to Article 503.17 of the Standard Specifications, shall be placed and compacted parallel to the skew in uniform increments along centerline of bridge. The finishing machine, when required, shall be set parallel to the skew for striking off and screeding the concrete.

Prior to pouring the new concrete deck, all loose rust, loose mill scale, and other loose potentially detrimental foreign material shall be removed from the surfaces of the beams or girders in contact with concrete. The cost of this work will be included in the pay item covering removal of the existing concrete. All heavy rust and other tightly adhered potentially detrimental foreign matter shall also be removed from the surfaces of the beams or girders in contact with concrete. Tightly adhered paint may remain unless otherwise noted. This removal shall be accomplished by methods that will not damage the steel. The cost of this work will be paid for according to Article 109.04.

All existing construction accessories welded to the top flange over the pier between the quarter points of the beams or girders shall be removed. The remaining weld shall be ground smooth and inspected for cracks using magnetic particle testing. Any cracks that can not be removed by grinding approximately $\frac{1}{4}$ inch deep shall be identified and reported to the Bureau of Bridges and Structures for further disposition. The cost of this work will be paid for according to Article 109.04.

Cell Name: GN37

Descrip: General Note 37

Bridge Seat Sealer shall be applied to the seat area of the

.

Cell Name: GN38

Descrip: General Note 38

When the deck pour is stopped for the day at one or more of the transverse Bonded Construction Joints in the deck Pouring Sequence as shown, the next pour shall not be made until both of the following requirements are met:

- 1. At least 72 hours shall have elapsed from the end of the previous pour.*
- 2. The concrete strength shall have attained a minimum flexural strength of 650 psi or a minimum compressive strength of 3500 psi.*

In addition to all other requirements of section 512 of the Standard Specifications, splices for piles shall develop the full capacity of the steel's cross sectional area of the pile for tension, shear and bending forces. One approved method of achieving this requirement is full penetration butt welding of the entire cross section. Other types of splices meeting the full capacity requirement may be allowed subject to the approval of the Engineer. Any proposal by the Contractor to use an alternate splice method must include adequate documentation demonstrating that the full tension, shear and bending capacities will be met. Appropriate welder qualifications will be required for the positions and processes used in splicing all piles. Nondestructive testing of completed welds will be limited to visual inspection.

Cell Name: GN40

Descrip: General Note 40

The existing structural steel coating contains lead. The Contractor shall take appropriate precautions to deal with the presence of lead on this project.

Cell Name: GN4I

Descrip: General Note 4I

AASHTO M 270 Grade 50W structural steel shall only be painted, at the ends of the beams, for a distance equal to the depth of embedment into the concrete cap plus 3 inches. Those areas shall be primed in the shop with an inorganic zinc rich primer per AASHTO M 300, Type 1. No field painting shall be required. All structural steel shall be cleaned as specified in the special provision for "Surface Preparation and Painting Requirements for Weathering Steel".

Cell Name: GN42

Descrip: General Note 42

AASHTO M 270 Grade 50W structural steel shall only be painted, for a distance of three times the depth of the beams or girders (but not exceeding 10 feet) each way from the deck joints. All structural steel shall be cleaned as specified in the special provision for "Surface Preparation and Painting Requirements for Weathering Steel".

Cell Name: GN43

Descrip: General Note 43

All Construction joints shall be bonded.

Cell Name: GN44

Descrip: General Note 44

Excavation behind existing abutment walls shall be done before removing the existing superstructure. The Contractor shall sawcut the existing abutments at the stage removal line before stage I removal.

Cell Name: GN45

Descrip: General Note 45

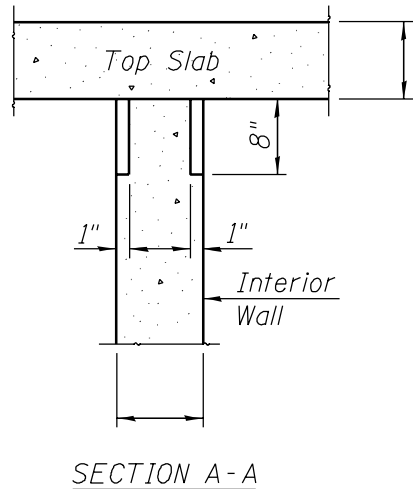
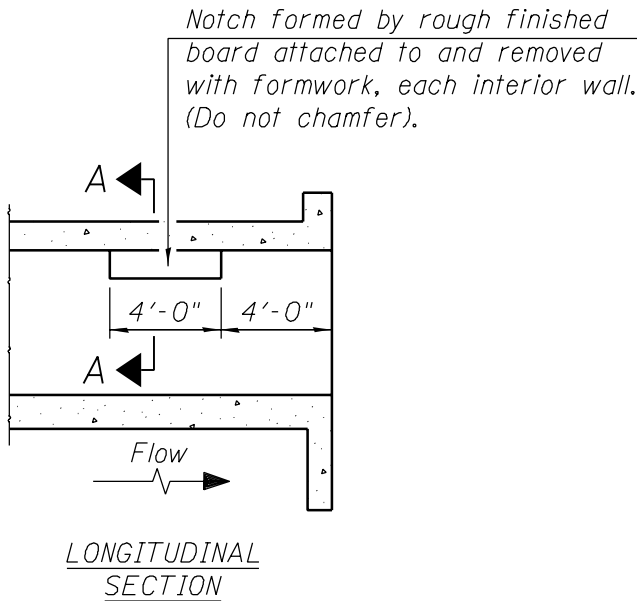
The Contractor shall obtain a construction permit from the Illinois Department of Natural Resources (IDNR), Office of Water Resources for any temporary construction activity placed in the water except cofferdams. This shall include the placement of material for run-arounds, causeways, etc. Any permit application by the Contractor shall refer to the IDNR permit number which was issued for the permanent construction.

Cell Name: GN46

Descrip: General Note 46

If the Contractor elects to use cantilever forming brackets on the exterior beams or girders, the brackets shall be placed at the same locations as required for the hardwood blocks in Article 503.06 of the Standard Specifications. If additional cantilever forming brackets are required, hardwood blocking shall be wedged between the exterior and first interior beam at each of these additional bracket locations.

Cell Name: GP0001
 Descrip: Phoebe nesting site



PHOEBE NESTING
SITE DETAILS
 (Downstream End Only)

Cell Name: GP0002
Descrip: Design specifications,stresses and loading

HIGHWAY CLASSIFICATION

Rte. - Rte.
Functional Class:
ADT: (20); (20)
DHV:
Design Speed: m.p.h.
Posted Speed: m.p.h.

LOADING HS20-44

Allow 50#/sq. ft. for future wearing surface.

DESIGN SPECIFICATIONS

1996 AASHTO with 1997 thru 2002 Interims

DESIGN STRESSES

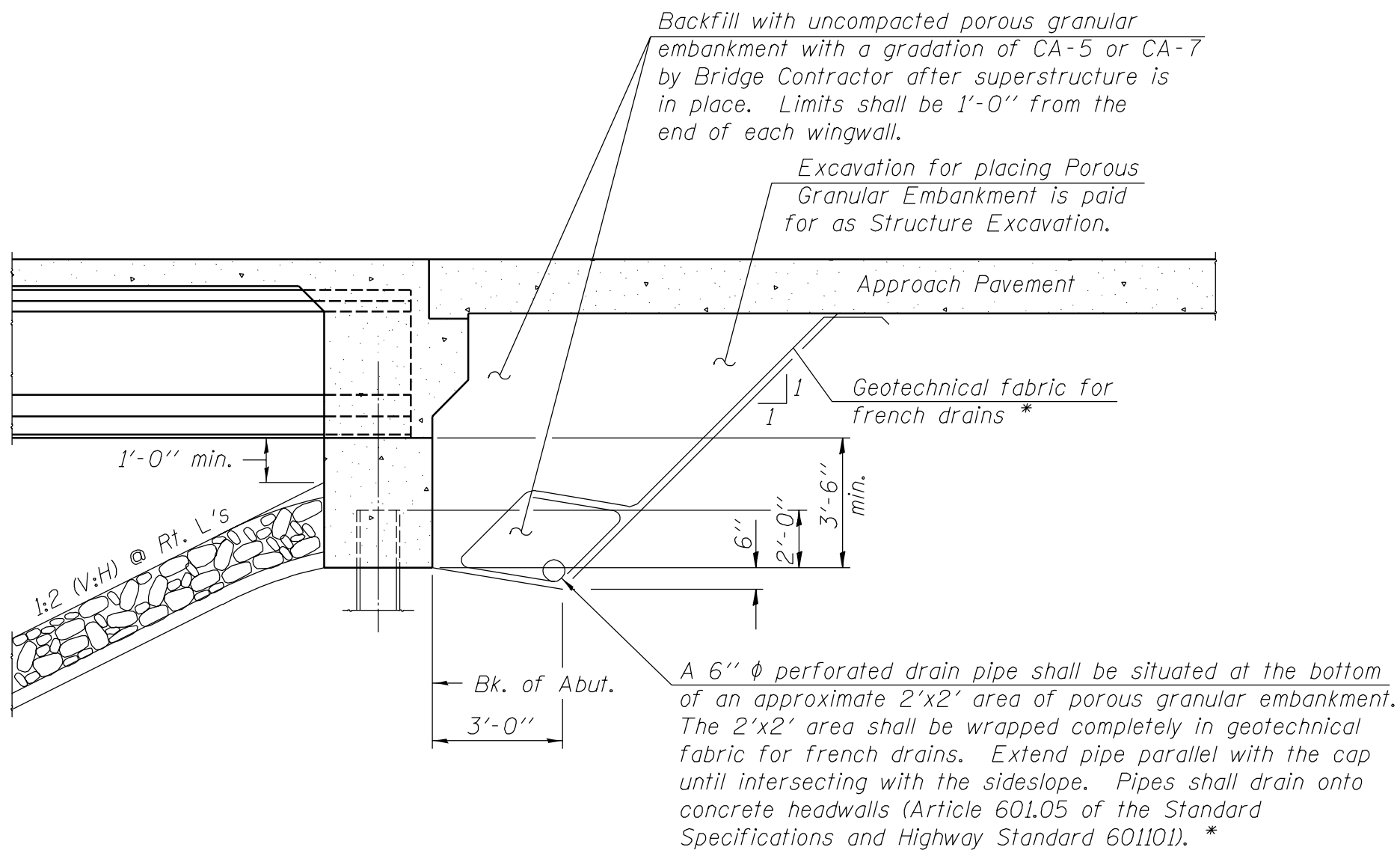
FIELD UNITS

f'c = 3,500 psi
fy = 60,000 psi (reinforcement)
fy = 36,000 psi (structural steel)

SEISMIC DATA

Seismic Performance Category (SPC) =
Bedrock Acceleration Coefficient (A) =
Site Coefficient (S) =

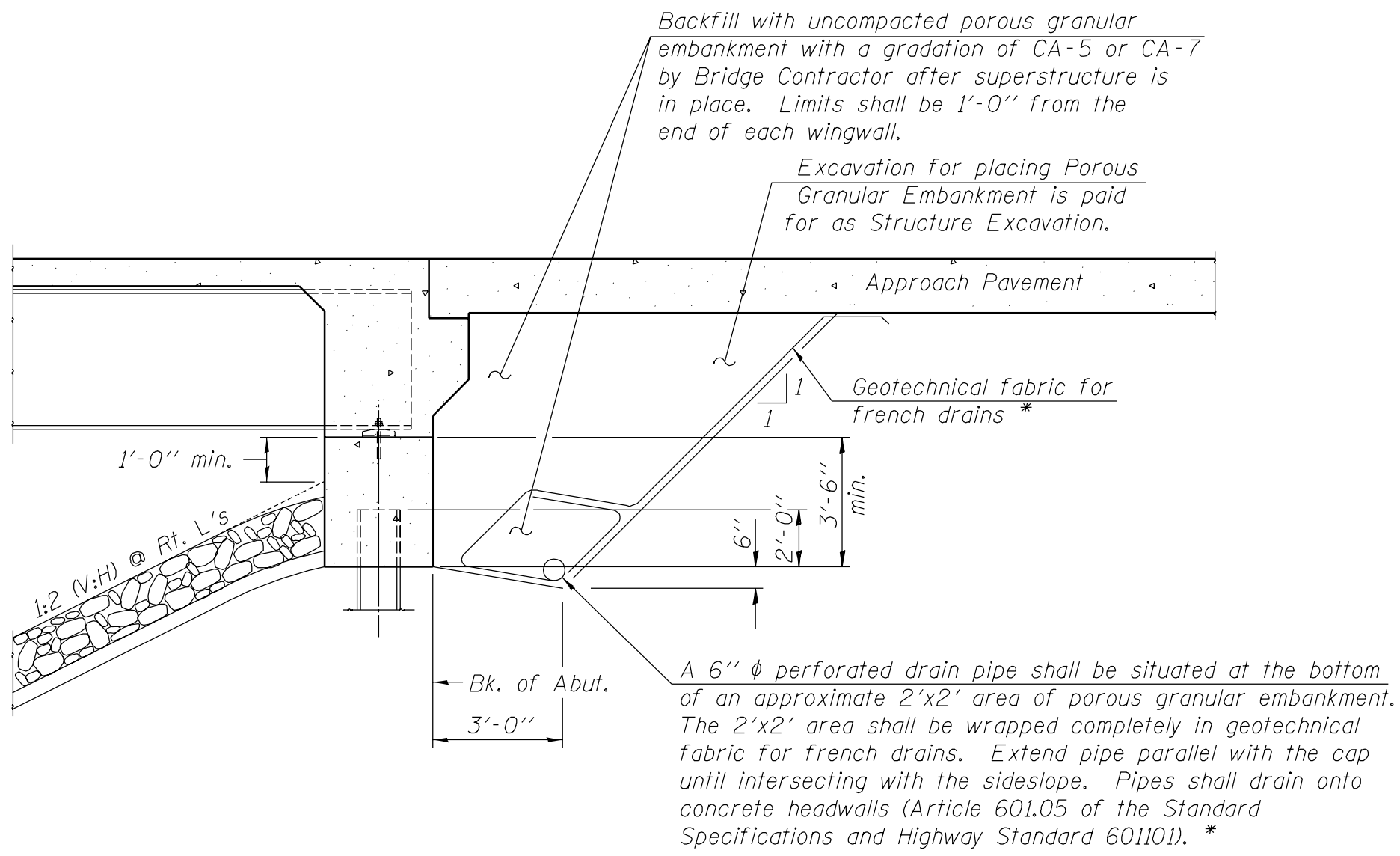
Cell Name: GP0003
Descrip: Section thru integral abutment for PPC beams



* Included in the cost of Porous Granular Embankment.

SECTION THRU INTEGRAL ABUTMENT
(Horiz. dim. @ Rt. L's)

Cell Name: GP0004
Descrip: Section thru integral abutment for steel beams



* Included in the cost of Porous Granular Embankment.

SECTION THRU INTEGRAL ABUTMENT
(Horiz. dim. @ Rt. L's)

Cell Name: GP0005

Descrip: Total Bill of Material,15 line

TOTAL BILL OF MATERIAL

[illegible]

Cell Name: GP0006

Descrip: Total Bill of Material, 20 line

TOTAL BILL OF MATERIAL

[illegible]

Cell Name: GP0007

Descrip: Total Bill of Material, 25 line

TOTAL BILL OF MATERIAL

[illegible]

Cell Name: GP0008

Descrip: Total Bill of Material, 30 line

TOTAL BILL OF MATERIAL

[illegible]

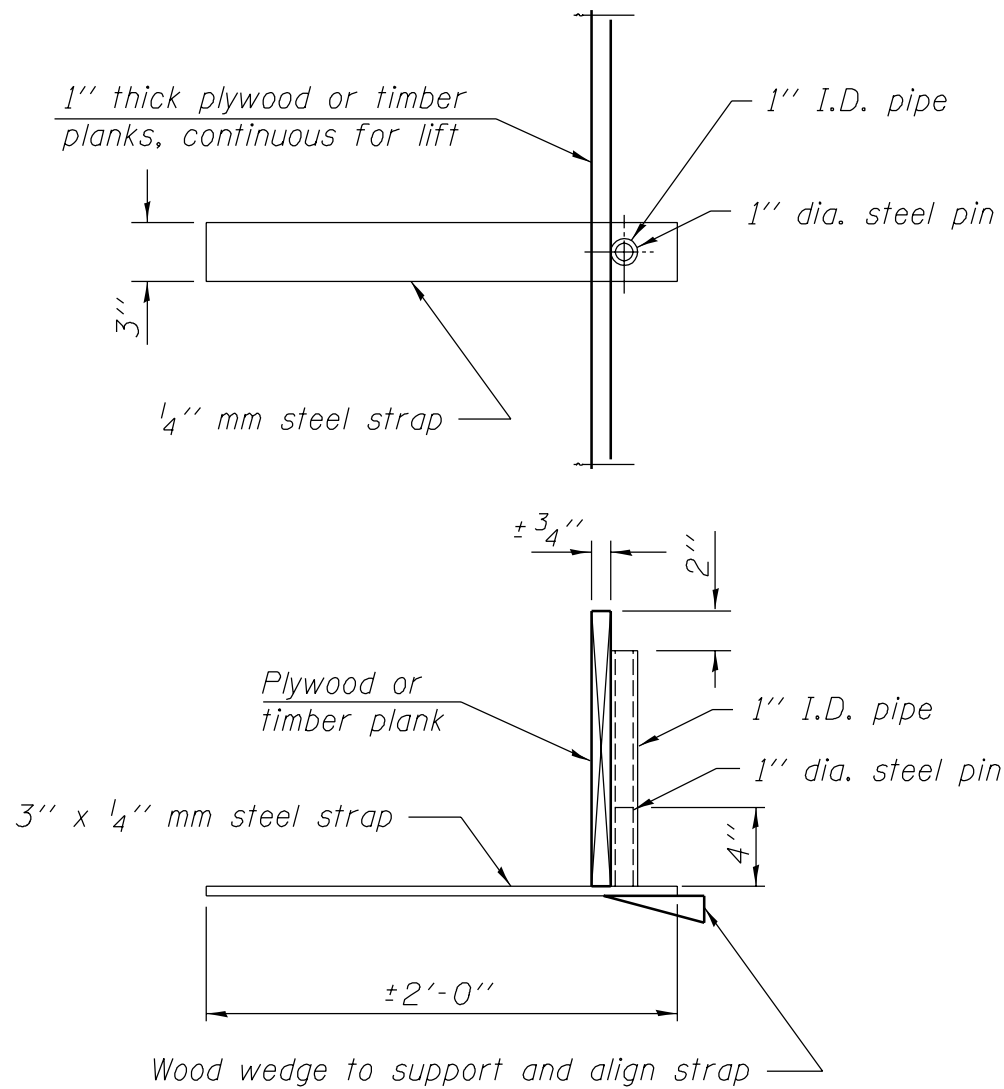
Cell Name: GP0009
 Descrip: Name Plate

STATION
 BUILT BY
 STATE OF ILLINOIS

LOADING HS20
 STR. NO.

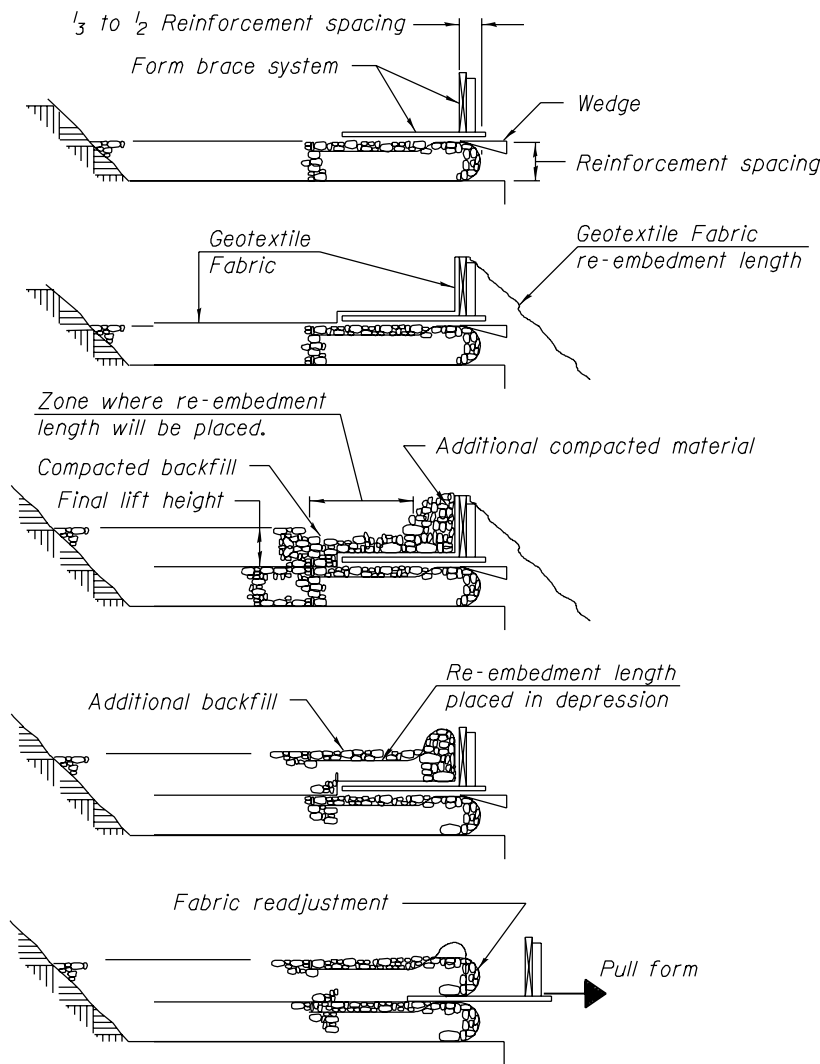
NAME PLATE
 See Std. 515001

Cell Name: GTBRAC
Descrip: Geotextile Wall Brace



Note:
This is a suggested detail, the Contractor is responsible for the design of the form brace system to be used.

SUGGESTED GEOTEXTILE TEMPORARY
FORM BRACE SYSTEM DETAIL



1. Place form brace system on completed reinforcement level; back from the finished fabric face a distance of $\frac{1}{3}$ to $\frac{1}{2}$ the reinforcement spacing.
2. Position fabric so that the required re-embedment length extends over the top of the form brace and the design reinforcement width is placed with no slack against the previous level.
3. Compact backfill material in lifts to final lift height, create ($\pm 3''$) depression in zone where re-embedment length will be located and place additional height of compacted material against form brace.
4. Fold fabric re-embedment length back over form brace into zone where depression was made in backfill and place additional compacted backfill, ($\pm 3''$) to embed fabric and bring to final lift height.
5. Pull form brace outward allowing fabric face to slightly readjust to form tight round face and level with plan reinforcement spacing.

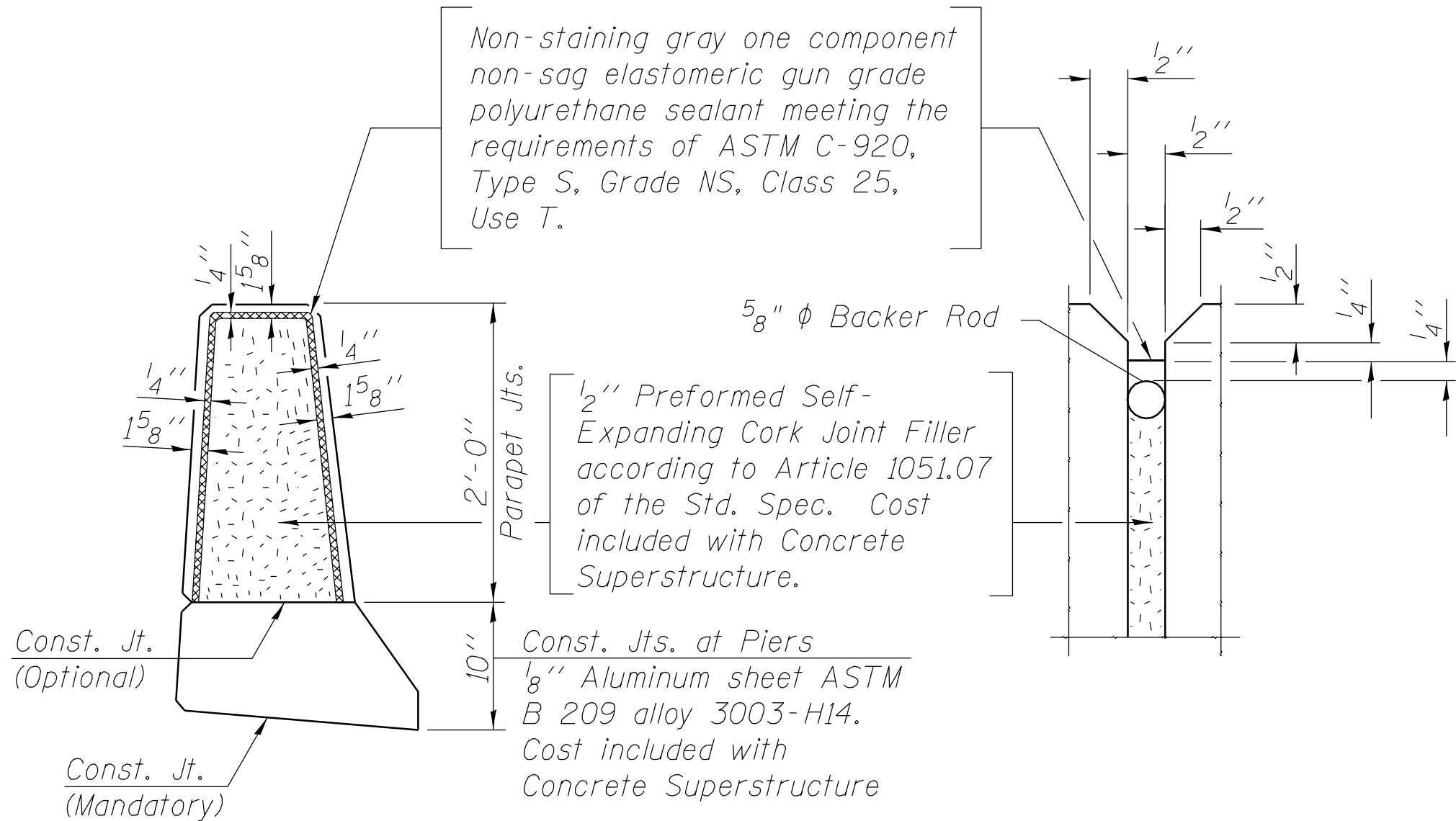
GEOTEXTILE WALL
CONSTRUCTION PROCEDURE

Notes: The geotextile fabric shall have a minimum allowable tensile strength (T min.) of lb./in. as determined by the procedure stated in the Special Provisions. The computations supporting the determination of (T min.) shall be submitted to the engineer for approval.

Cell Name: NOTES
Descrip: Note placement text nodes

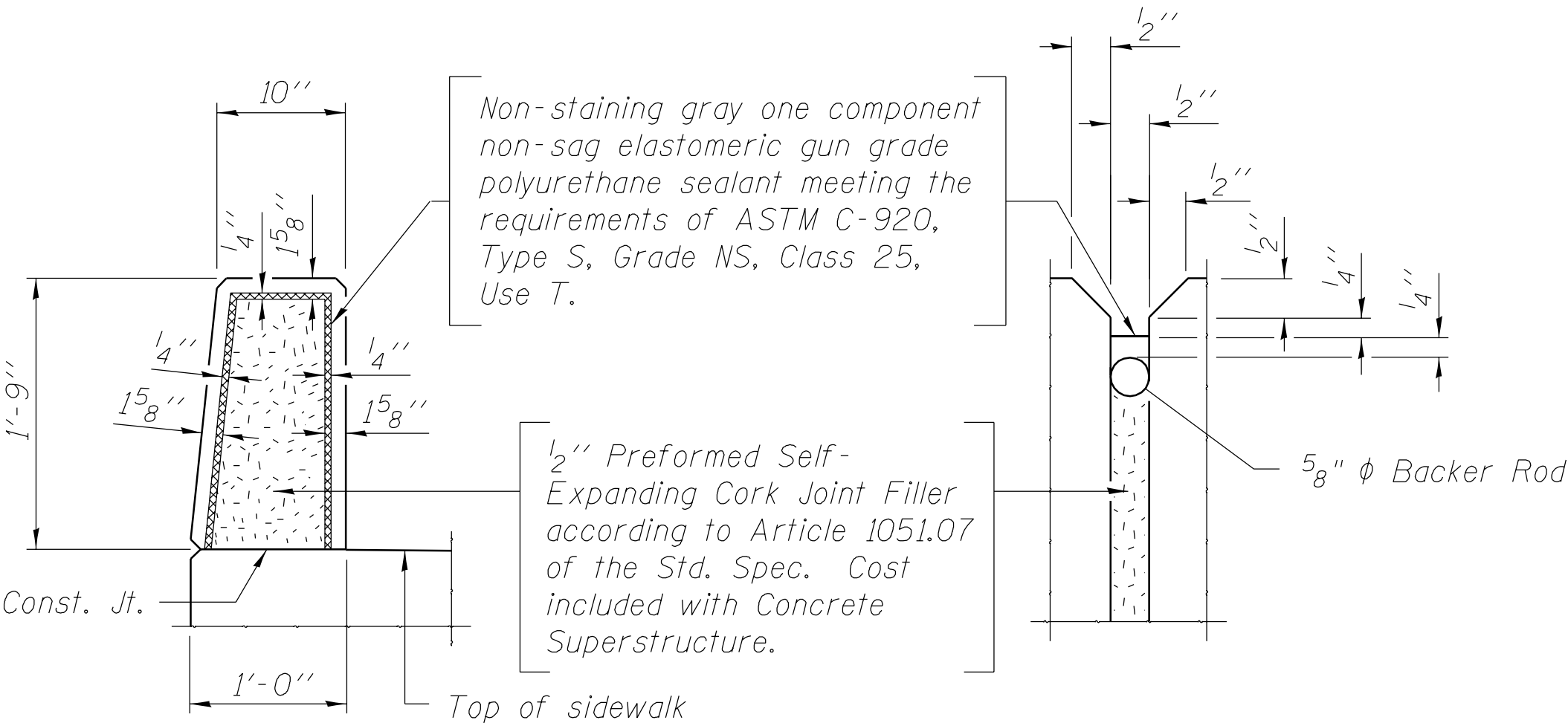
Notes:

Cell Name: PARJNT
Descrip: Parapet Joint Details



PARAPET JOINT DETAILS

Cell Name: PARJNT1
Descrip: Parapet Joint at Sidewalk



PARAPET JOINT DETAILS

Cell Name: P11
Descrip: Removal and Disposal of Unsuitable Material

Removal and Disposal of Unsuitable
Material

Cu. Yd.

Cell Name: P12
Descrip: Porous Granular Embankment

Porous Granular Embankment

Cu. Yd.

Cell Name: P13

Descrip: Stone Riprap, Class A

Stone Riprap, Class A

Sq. Yd.

Cell Name: P14

Descrip: Stone Dumped Riprap, Class A

Stone Dumped Riprap, Class A

Sq. Yd.

Cell Name: P15
Descrip: Filter Fabric for use with Riprap

Filter Fabric for use with Riprap Sq. Yd.

Cell Name: P16
Descrip: Removal of Existing Structures

Removal of Existing Structures Each

Cell Name: P17
Descrip: Removal of Existing Superstructures

Removal of Existing Superstructures Each

Cell Name: P18
Descrip: Concrete Removal

Concrete Removal

Cu. Yd.

Cell Name: P19
Descrip: Bridge Handrail Removal

Bridge Handrail Removal

Foot

Cell Name: P110
Descrip: Handrail Concrete Removal

Handrail Concrete Removal

Foot

Cell Name: PIII
Descrip: Removal of Existing Concrete Deck

Removal of Existing Concrete Deck Each

Cell Name: P112
Descrip: Structure Excavation

Structure Excavation

Cu. Yd.

Cell Name: P113
Descrip: Cofferdam Excavation

Cofferdam Excavation

Cu. Yd.

Cell Name: P114
Descrip: Rock Excavation for Structures

Rock Excavation for Structures Cu. Yd.

Cell Name: P115
Descrip: Cofferdams

Cofferdams

Each

Cell Name: P116
Descrip: Driving Steel Piles

Driving Steel Piles

Foot

Cell Name: P117
Descrip: Floor Drains

Floor Drains

Each

Cell Name: P118

Descrip: Preformed Joint Seal "

Preformed Joint Seal "

Foot

Cell Name: P119

Descrip: Neoprene Expansion Joint "

Neoprene Expansion Joint " Foot

Cell Name: P120
Descrip: Concrete Structures

Concrete Structures

Cu. Yd.

Cell Name: P121
Descrip: Concrete Superstructure

Concrete Superstructure

Cu. Yd.

Cell Name: P122
Descrip: Bridge Deck Grooving

Bridge Deck Grooving

Sq. Yd.

Cell Name: P123
Descrip: Seal Coat Concrete

Seal Coat Concrete

Cu. Yd.

Cell Name: P124
Descrip: Protective Coat

Protective Coat

Sq. Yd.

Cell Name: P125
Descrip: Elastomeric Bearing Assembly, Type

Elastomeric Bearing Assembly Type Each

Cell Name: P126
Descrip: Precast Prestressed Concrete Deck Beams (" Depth)

Precast Prestressed Concrete Deck
Beams ('' Depth) Sq. Ft.

Cell Name: P127

Descrip: Furnishing and Erecting Precast Prestressed Concrete Bulb T-Beams

Furnishing and Erecting Precast
Prestressed Concrete Bulb T-Beams

Foot

Cell Name: P128

Descrip: Furnishing and Erecting Precast Prestressed Concrete I Beams, "

Furnishing and Erecting Precast
Prestressed Concrete I Beams, " Foot

Cell Name: P129

Descrip: Precast Concrete Panel

Precast Concrete Panel

Sq. Ft.

Cell Name: P130
Descrip: Precast Concrete Plank

Precast Concrete Plank

Sq. Ft.

Cell Name: P131
 Descrip: Precast Prestressed Concrete Plank

Precast Prestressed Concrete Plank Sq. Ft.

Cell Name: P132
Descrip: Furnishing and Erecting Structural Steel

Furnishing and Erecting Structural
Steel L. Sum

Cell Name: P133
Descrip: Furnishing and Erecting Structural Steel

Furnishing and Erecting Structural
Steel Pound

Cell Name: P134
Descrip: Stud Shear Connectors

Stud Shear Connectors

Each

Cell Name: P135
Descrip: Structural Steel Repair

Structural Steel Repair

Pound

Cell Name: P136
Descrip: Cleaning and Painting Steel Bridge No.

Cleaning and Painting Steel Bridge
No. L. Sum

Cell Name: P137
Descrip: Reinforcement Bars

Reinforcement Bars

Pound

Cell Name: P138
Descrip: Reinforcement Bars, Epoxy Coated

Reinforcement Bars, Epoxy Coated Pound

Cell Name: P139

Descrip: Aluminum Railing, Type L

Aluminum Railing, Type L

Foot

Cell Name: P140
Descrip: Steel Railing, Type

Steel Railing, Type

Foot

Cell Name: P141
Descrip: Steel Bridge Rail

Steel Bridge Rail

Foot

Cell Name: P142
Descrip: Slopewall Inch

Slopewall Inch

Sq. Yd.

Cell Name: P143

Descrip: Furnishing Metal Pile Shells "

Furnishing Metal Pile Shells " Foot

Cell Name: P144

Descrip: Furnishing Steel Piles HP x

Furnishing Steel Piles HP x Foot

Cell Name: P145
Descrip: Furnishing Concrete Piles

Furnishing Concrete Piles

Foot

Cell Name: P146
Descrip: Driving and Filling Shells

Driving and Filling Shells

Foot

Cell Name: P147
Descrip: Driving Concrete Piles

Driving Concrete Piles

Foot

Cell Name: P148
Descrip: Test Pile Metal Shells

Test Pile Metal Shells

Each

Cell Name: P149

Descrip: Test Pile Steel HP x

Test Pile Steel HP x

Each

Cell Name: P150
Descrip: Test Pile Concrete

Test Pile Concrete

Each

Cell Name: P151
Descrip: Metal Shoes

Metal Shoes

Each

Cell Name: P152
Descrip: Steel Sheet Piling

Steel Sheet Piling

Sq. Ft.

Cell Name: P153
Descrip: Temporary Sheet Piling

Temporary Sheet Piling

Sq. Ft.

Cell Name: P154

Descrip: Temporary Bridge Rail

Temporary Bridge Rail

Foot

Cell Name: P155
Descrip: Name Plates

Name Plates

Each

Cell Name: P156

Descrip: Expansion Bolts 3/4 Inch

Expansion Bolts 3/4 Inch Each

Cell Name: P157
Descrip: Concrete Box Culverts

Concrete Box Culverts

Cu. Yd.

Cell Name: P158
Descrip: Waterproofing Membrane System

Waterproofing Membrane System	Sq. Yd.
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Cell Name: P159
Descrip: Sand Backfill

Sand Backfill

Cu. Yd.

Cell Name: P160
Descrip: Bridge Seat Sealer

Bridge Seat Sealer

Sq. Ft.

Cell Name: P161
Descrip: Epoxy Crack Sealing

Epoxy Crack Sealing

Foot

Cell Name: P162

Descrip: Temporary Concrete Barrier

Temporary Concrete Barrier

Foot

Cell Name: P163
Descrip: Floating Bearing, Guided Expansion

Floating Bearing, Guided Expansion Each

Cell Name: P164
Descrip: Floating Bearing, Non-Guided Expansion

Floating Bearing, Non-Guided Expansion Each

Cell Name: P165

Descrip: Floating Bearing, Fixed

Floating Bearing, Fixed

Each

Cell Name: P166

Descrip: Drainage Scupper, DS-12

Drainage Scuppers, DS-12

Each

Cell Name: P167

Descrip: Drainage Scuppers, DS-33

Drainage Scuppers, DS-33

Each

Cell Name: P168

Descrip: Bridge Joint System (Expansion)

Bridge Joint System (Expansion)

Foot

Cell Name: P169
 Descrip: Bridge Joint System (Fixed)

Bridge Joint System (Fixed)

Foot

Cell Name: P170

Descrip: Drainage Scuppers, DS-II

Drainage Scuppers, DS-11

Each

Cell Name: P171
Descrip: Bar Splicers

Bar Splicers

Each

Cell Name: P172

Descrip: Drilled Shaft in Soil " Dia.

Drilled Shaft in Soil " Dia.

Foot

Cell Name: P173

Descrip: Drilled Shaft in Rock " Dia.

Drilled Shaft in Rock " Dia. Foot

Cell Name: P174
Descrip: Drainage System

Drainage System

L. Sum

Cell Name: P175
Descrip: Jacking and Cribbing

Jacking and Cribbing

Each

Cell Name: P176

Descrip: Temporary Support System

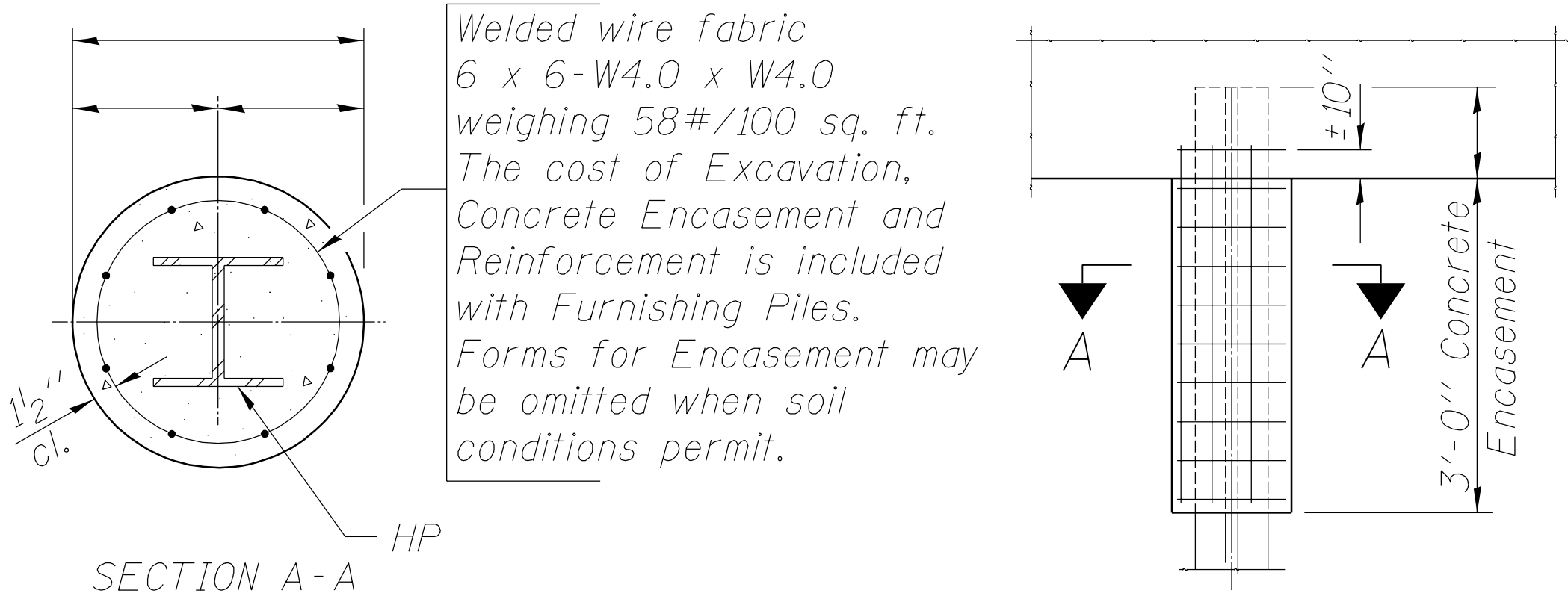
Temporary Support System

Each

Cell Name: P177
Descrip: Temporary Wall Bracing System

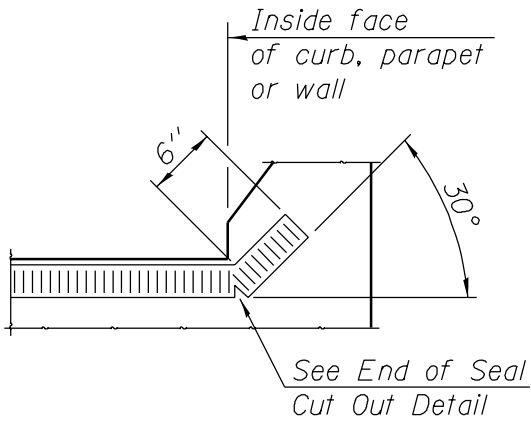
Temporary Wall Bracing System L. Sum

Cell Name: PILENC
 Descrip: Pile Encasement Details

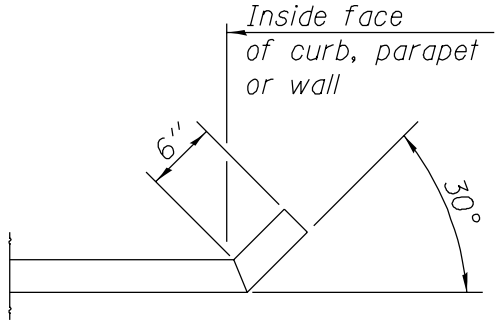


PILE ENCASEMENT DETAIL

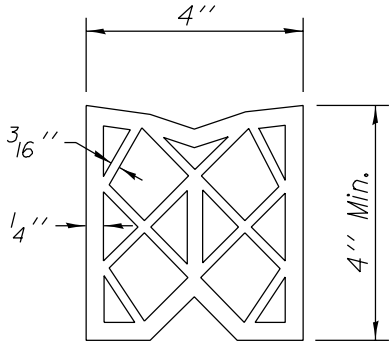
Cell Name: PJS
Descrip: PJS details



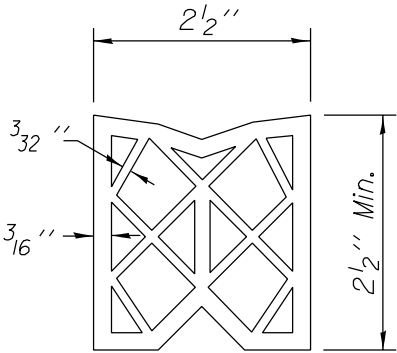
END OF SEAL



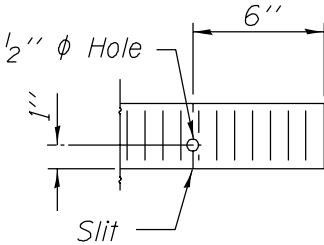
END OF PLATE



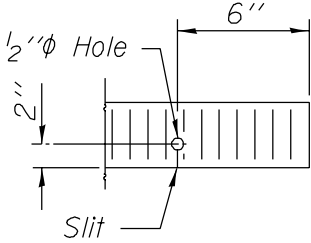
PREFORMED JOINT SEAL (4")



PREFORMED JOINT SEAL (2 1/2")

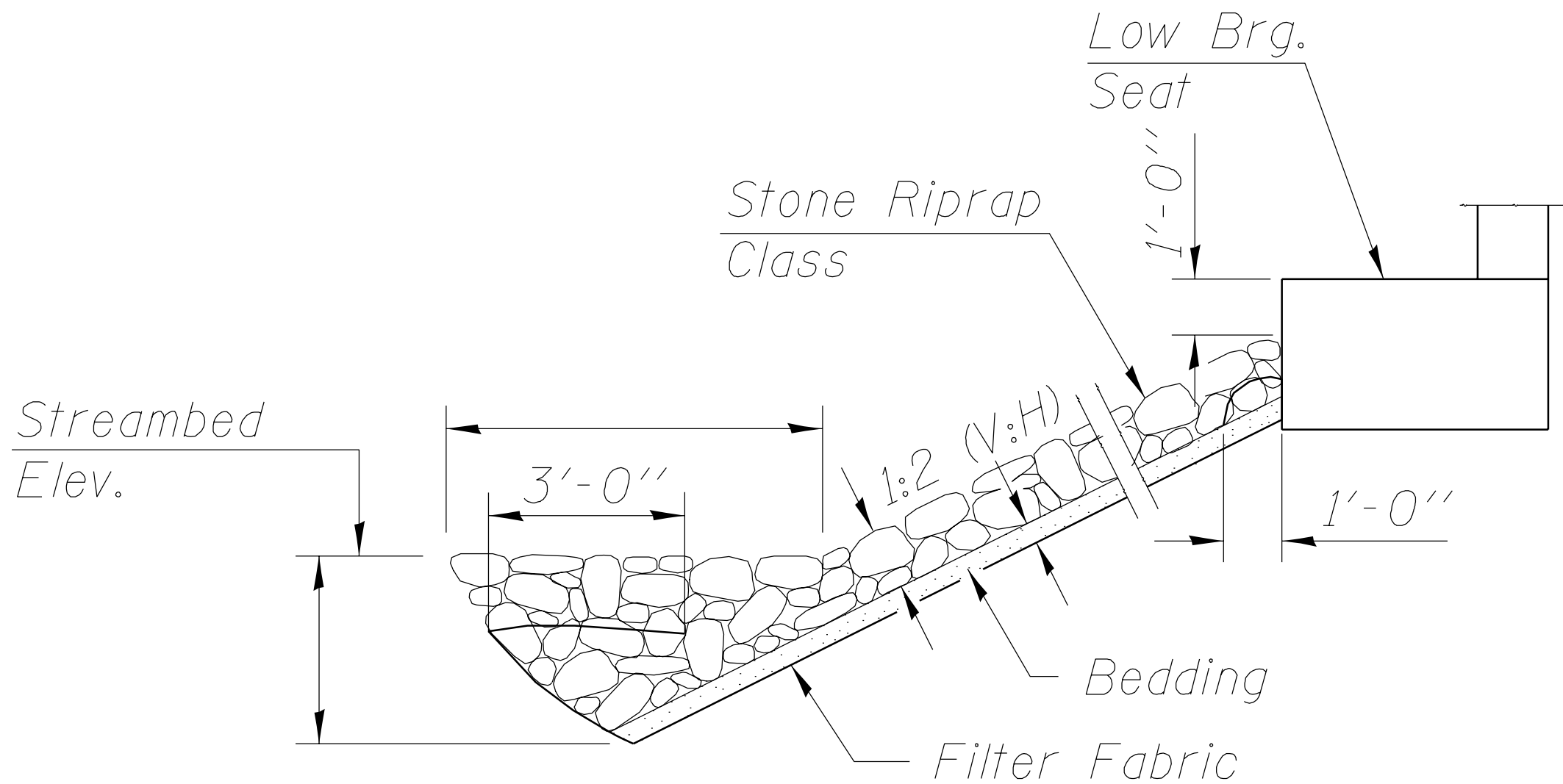


SEAL CUT-OUT



SEAL CUT-OUT

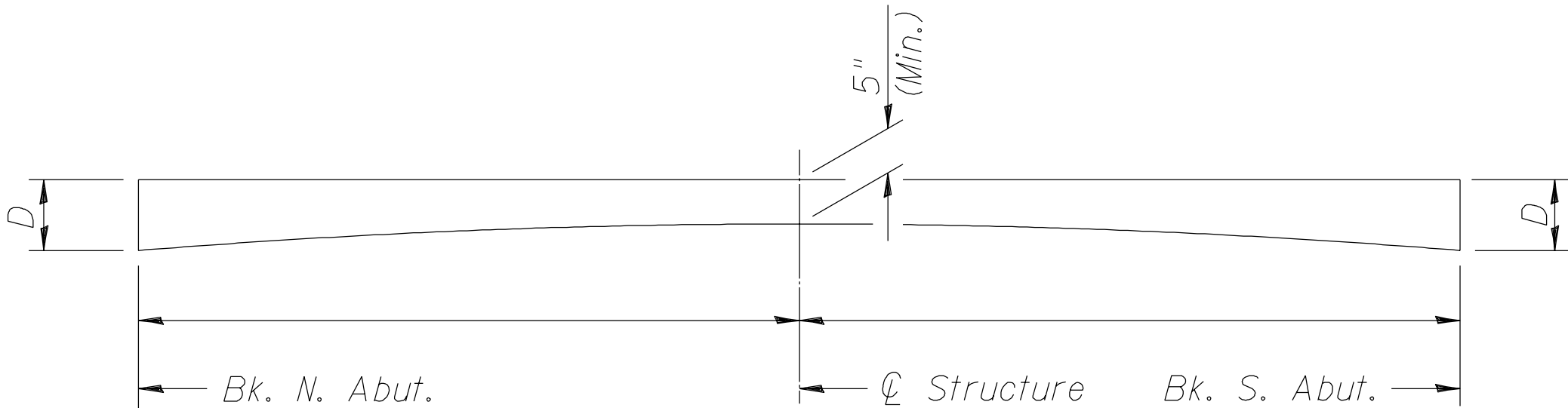
Cell Name: RRAP
 Descrip: Riprap anchor detail



STONE RIPRAP ANCHOR DETAIL

Cell Name: SMROIE

Descrip: Side mount rail details for PPC deck beams with concrete wearing surface

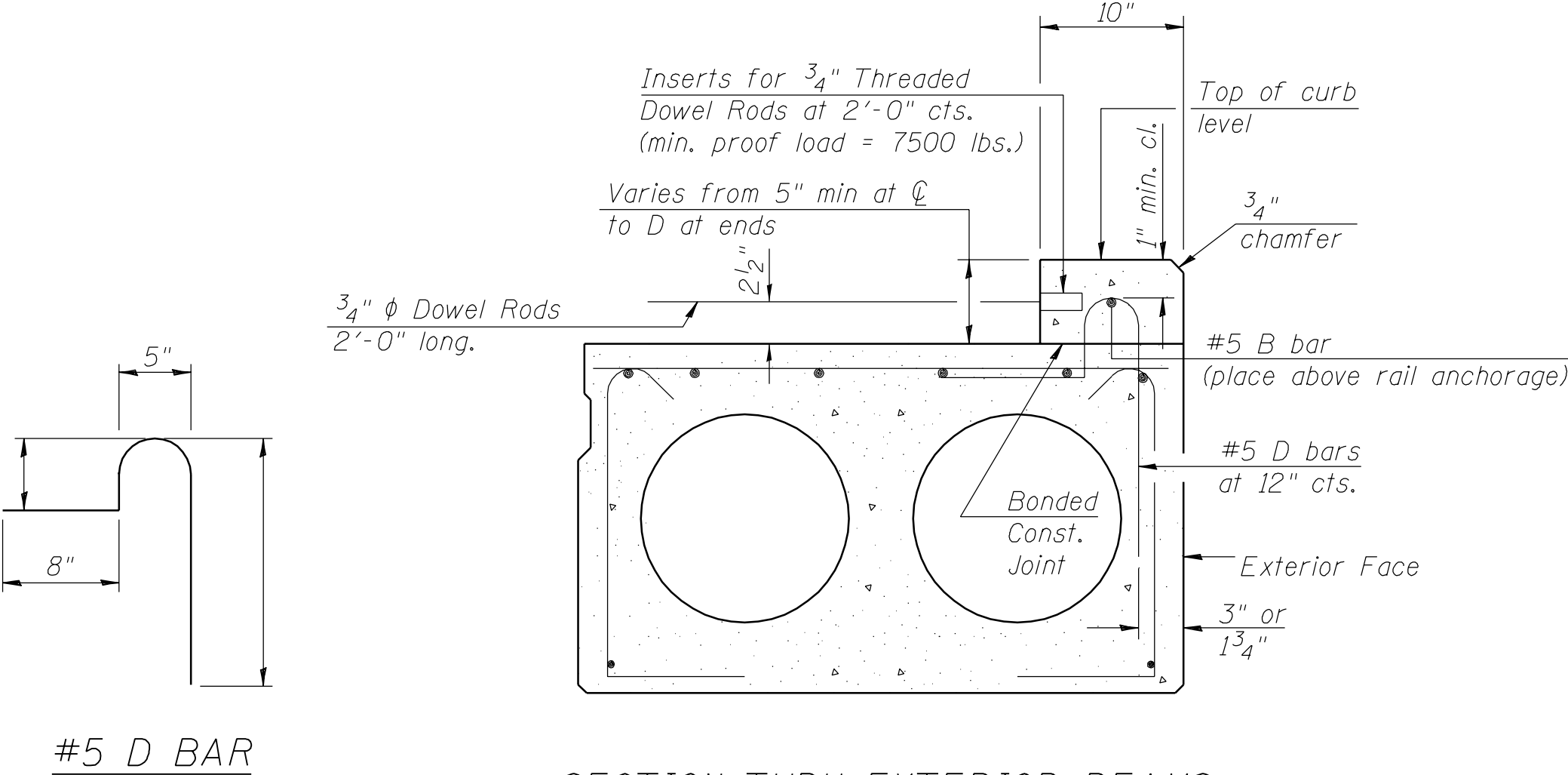


REINFORCED CONCRETE WEARING SURFACE PROFILE

$D = 5'' + \text{Camber}$

Cell Name: SMR02E

Descrip: Side mount rail details for PPC deck beams with concrete wearing surface



SECTION THRU EXTERIOR BEAMS

See Section Thru Interior Beams for strand pattern, dimensions and bar call outs.

Cell Name: SMR03E

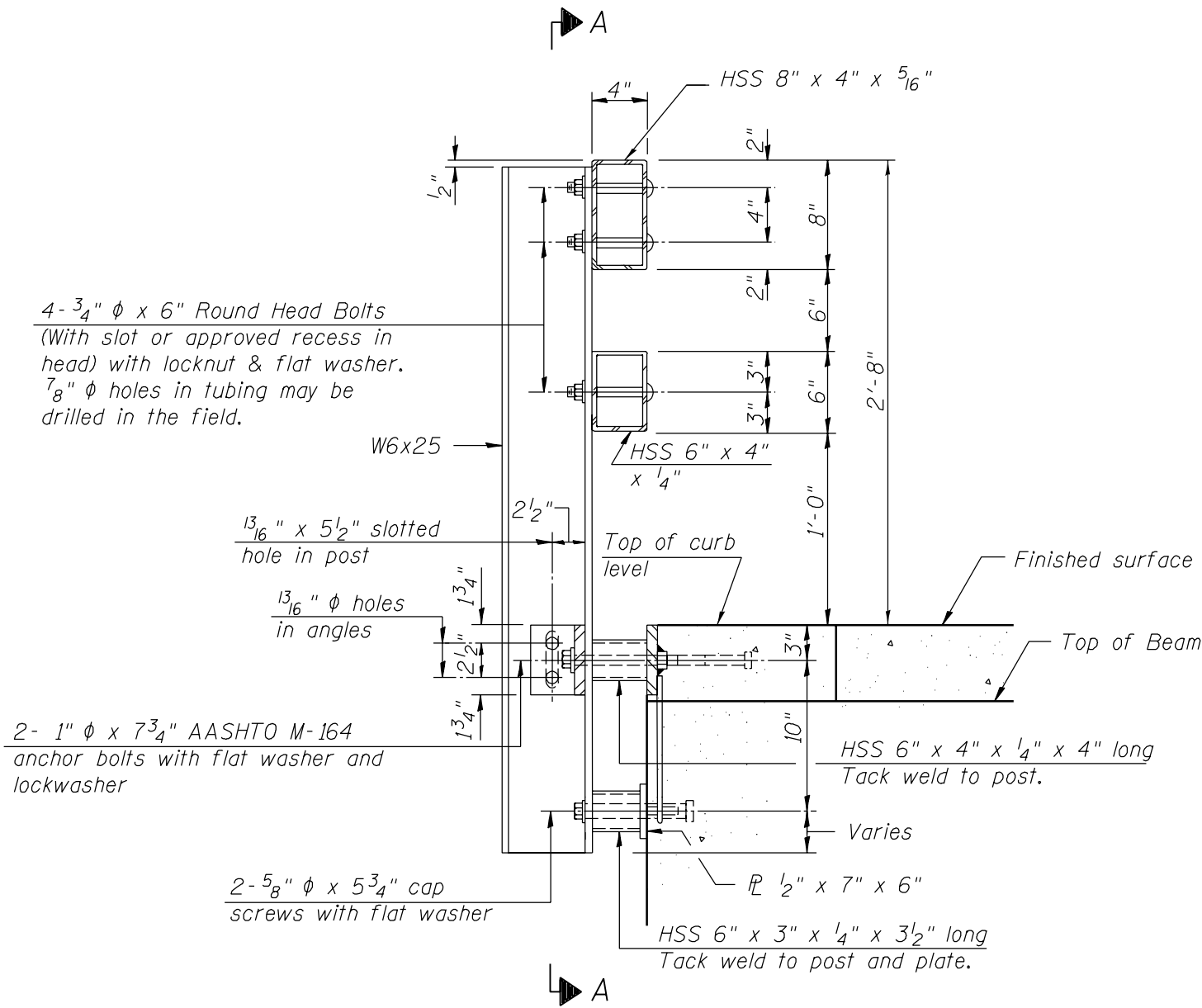
Descrip: Side mount rail details for PPC deck beams with concrete wearing surface

Bridge rail inserts shall be cast in precast beams and curbs. Curbs shall be cast by the precast prestressed concrete supplier after strands have been released and prior to shipping the beam. The concrete in the curb shall be the same as specified for the deck beams.

The curb inserts and threaded dowel rods may be either epoxy coated or galvanized and the cost shall be included with precast prestressed concrete deck beams.

Cell Name: SMR04E

Descrip: Side mount rail details for PPC deck beams with concrete wearing surface



SECTION AT RAIL POST

Descrip: Section thru sidewalk



Cell Name: TABLE1
Descrip: LFD tables with notes for steel beams

INTERIOR GIRDER MOMENT TABLE				
		0.4 Sp. 1	Pier	0.6 Sp. 2
Is	(in ⁴)			
Ic (n)	(in ⁴)			
Ic (3n)	(in ⁴)			
Ss	(in ³)			
Sc (n)	(in ³)			
Sc (3n)	(in ³)			
Z	(in ³)			
ϕ	(k/ft.)			
Mϕ	('k)			
sϕ	(k/ft.)			
Msϕ	('k)			
Mℓ	('k)			
M (Imp)	('k)			
53[Mℓ+M(Imp)]	('k)			
Ma	('k)			
Mu	('k)			
fsϕ non-comp	(k.s.i.)			
fsϕ (comp)	(k.s.i.)			
fs53(ℓ+Imp)	(k.s.i.)			
fs (Overload)	(k.s.i.)			
fs (Total)	(k.s.i.)			
VR	(k)			

INTERIOR GIRDER REACTION TABLE				
		Abut.	Pier	Abut.
$R\phi$	(k)			
$R\ell$	(k)			
Imp.	(k)			
R (Total)	(k)			

Is and Ss are the moment of inertia and section modulus of the steel section used in computing fs (Total & Overload).

Ic(n) and Sc(n) are the moment of inertia and section modulus of the composite section used in computing stresses due to Live Load.

Ic(3n) and Sc(3n) are the moment of inertia and section modulus of the composite section used in computing stresses due to superimposed dead loads. (see AASHTO 10.38)

VR is the maximum Live Load + Impact shear range in span.

Z is the plastic section modulus used to determine the fully plastic moments in the non-composite areas.

Ma (Applied Moment)=1.3[Mϕ + Msϕ + 53(Mℓ + M(Imp))].

The Plastic Moment capacity (Mu) is computed according to AASHTO 10.48.1 and 10.50.1.1.

fs (Overload) is the sum of the stresses due to Mϕ + Msϕ + 53(Mℓ + M(Imp)).

fs (Total) (Non-compact section) is the sum of the stresses due to 1.3[Mϕ + Msϕ + 53(Mℓ + M(Imp))].

Cell Name: *TABLE2*
Descrip: *LFD moment and reaction tables with notes for PPC beams*

INTERIOR BEAM MOMENT TABLE			
	0.4 Sp. #1 0.6 Sp. #3	Pier 1 or 2	0.5 Sp. #2
Strand Pattern			
<i>I</i> (in ⁴)			
<i>I'</i> (in ⁴)			
<i>S_b</i> (in ³)			
<i>S_b'</i> (in ³)			
<i>S_t</i> (in ³)			
<i>S_t'</i> (in ³)			
<i>ℓ</i> (k/')			
<i>M ℓ</i> ('k)			
<i>s ℓ</i> (k/')			
<i>Ms ℓ</i> ('k)			
<i>M ℓ</i> ('k)			
<i>M (Imp)</i> ('k)			

INTERIOR BEAM REACTION TABLE			
	Abut.	Pier 1 Span 1 Pier 2 Span 3	Pier 1 Span 2 Pier 2 Span 2
<i>R ℓ</i> (k)			
<i>Rs ℓ</i> (k)			
<i>R ℓ</i> (k)			
<i>Imp.</i> (k)			
<i>R (Total)</i> (k)			

I and I' are the moment of inertia and composite moment of inertia of the beam section.
S_b and S_b' are the non-composite and composite section modulus for the bottom fiber of the prestressed beam.
S_t and S_t' are the non-composite and composite section modulus for the top fiber of the prestressed beam.

INTERIOR GIRDER MOMENT TABLE		
	0.4 Sp. 1 or 0.6 Sp. 2	Pier 1
Is	(in ⁴)	
Ic (n)	(in ⁴)	
Ic (3n)	(in ⁴)	
Ss	(in ³)	
Sc (n)	(in ³)	
Sc (3n)	(in ³)	
Z	(in ³)	
DC1	(k/')	
M DC1	('k)	
DC2	(k/')	
M DC2	('k)	
DW	(k/')	
M DW	('k)	
M ℓ +Imp	('k)	
Ma (Strength I)	('k)	
Mr	('k)	
fs DC1	(ksi)	
fs DC2	(ksi)	
fs DW	(ksi)	
fs 1.3(ℓ +I)	(ksi)	
fs (Service II)	(ksi)	
fs (Total)(Strength I)	(ksi)	
Vsr	(k)	

INTERIOR GIRDER REACTION TABLE		
HL93 Loading		
	Abutment	Pier
R DC1	(k)	
R DC2+DW	(k)	
R ℓ	(k)	
R Imp	(k)	
R Total	(k)	

Is and Ss are the moment of inertia and section modulus of the steel section used in computing fs due to non-composite loads.

Ic(n) and Sc(n) are the moment of inertia and section modulus of the composite section used in computing fs due to short-term composite loads.

Ic(3n) and Sc(3n) are the moment of inertia and section modulus of the composite section used in computing fs due to long-term composite loads.

Z is the plastic section modulus used to determine the fully plastic moments in the non-composite areas.

DC1 is the dead load acting on the non-composite section.

DC2 is the dead load acting on the long-term composite section.

DW is the dead load acting on the long-term composite section due to wearing surface.

Ma (Strength I)=1.25 M(DC1+DC2)+1.5 M DW +1.75 M(ℓ +Imp)

Mr is the full plastic moment capacity computed in accordance with 6.10.3.1.3 and 6.10.4.2.2.

fs (Service II) is the sum of the stresses due to DC1+DC2+DW+1.3(ℓ +Imp)

fs (Total) (Strength I) (Non-Compact Section) is the sum of the stresses due to 1.25(DC1+DC2)+1.5DW+1.75(ℓ +Imp)

Vsr is the maximum shear range in the span (0.75 ℓ +Imp)

Cell Name: *TABLE4*
Descrip: *LRFD moment and reaction tables with notes for PPC beams*

INTERIOR BEAM MOMENT TABLE		
	0.4 Sp. 1 or 0.6 Sp. 2	Pier 1
<i>I</i>	(in ⁴)	
<i>I'</i>	(in ⁴)	
<i>S_b</i>	(in ³)	
<i>S_b'</i>	(in ³)	
<i>S_t</i>	(in ³)	
<i>S_t'</i>	(in ³)	
<i>DC1</i>	(k/')	
<i>M DC1</i>	('k)	
<i>DC2</i>	(k/')	
<i>M DC2</i>	('k)	
<i>DW</i>	(k/')	
<i>M DW</i>	('k)	
<i>M_ℓ +Imp</i>	('k)	

I and *I'* are the moment of inertia and composite moment of inertia of the beam section.

S_b and *S_b'* are the non-composite and composite section modulus for the bottom fiber of the prestressed beam.

S_t and *S_t'* are the non-composite and composite section modulus for the top fiber of the prestressed beam.

M Imp is the moment due to live load impact on the composite section.

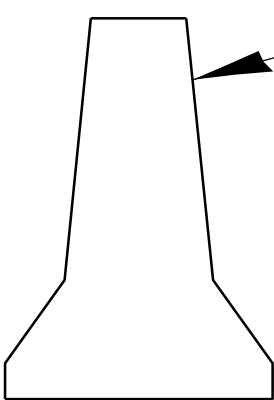
DC1 is the dead load acting on the non-composite section.

DC2 is the dead load acting on the long-term composite section.

DW is the dead load acting on the long-term composite section due to wearing surface.

INTERIOR BEAM REACTION TABLE		
HL93 Loading		
	Abutment	Pier
<i>R DC1</i>	(k)	
<i>R DC2+DW</i>	(k)	
<i>R ℓ</i>	(k)	
<i>R Imp</i>	(k)	
<i>R Total</i>	(k)	

Cell Name: *TMPBRR*
 Descrip: *Temporary Concrete Barrier*



Temporary Concrete Barrier

See Std. 704001, typ.